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Note:

The bidders, in their own interest are requested to read very carefully Section-I (Instruction to Bidders), Section-II (General Condition of Contract) & Section-III (Technical Specification) before filling the bid. The Bid documents can be downloaded from website of Jodhpur Discom www.jdvvn.com, www.sppp.rajasthan.gov.in & <http://eproc.rajasthan.gov.in> & can be uploaded on the website <http://eproc.rajasthan.gov.in>. No hard copy of the bidding documents will be provided to the bidders through this office. In case of any discrepancy found in the bidding documents downloaded from the website and appended with the bid (as a bid document) and the original copy of such document available in the office of Superintending Engineer (MM&C), Jodhpur Discom, Jodhpur then the copy available with Superintending Engineer (MM&C), Jodhpur Discom, Jodhpur will be considered as final document for all purposes. The scheduled date and time to deposit the cost of Bid document, EMD or Valid Vendor Registration Certificate (if applicable) and furnishing of tender processing fee, be as stated/mentioned in published Notice Inviting Tender/tender document.

**JODHPUR VIDYUT VITARAN NIGAM LIMITED
(MATERIAL MANAGEMENT & CONTRACT)
NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR -342003**

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TENDER SPECIFICATION NO. JdVVNL/SE(MM&C)/EIIAII/TN-1295

Tenders are hereby invited in e-tender system for purchase of **ISI marked LT 2C X 4 SQ. MM. PVC Insulated & PVC Sheathed Armoured Cable**. Tenders are to be submitted online in electronic format on website <http://eproc.rajasthan.gov.in>. The details are as under-

S.No.	Name of Item	Quantity
1	ISI marked LT 2C X 4 Sq. MM. LT PVC Insulated and PVC Sheathed Armoured Cables	8,290 KMs

A	NIT No.	TN-1295
B	Cost of tender specifications	Rs.2500.00 (Two Thousand Five Hundred Only)
C	Processing fee of RISL	Rs.1000.00 (One Thousand Only)
D	Earnest money	Rs. 5.00 Lacs /Exemption Certificate / Vendor Registration of Class A
E	Validity	120 days from the next date of opening of techno-commercial bid.
F	Base date for price variation	1 st day of one month prior to the date of opening of technical bid.

IMPORTANT DATES

S.N.	Events	Date & Time	Location
1	Date of downloading of tender specifications	Up to 31.01.2017 (06:00 PM)	www.jdvvn.com & http://eproc.rajasthan.gov.in
2	Deposit of cost of Tender Specifications & Earnest Money and furnishing of Processing fee	Up to 31.01.2017 (04:00 PM)	Office of Sr. A.O (Cash & CPC) / SE (MM&C), JdVVNL , New Power House, Industrial Area, Jodhpur
3	Last Date & time of submission of electronic bid	Up to 01.02.2017 (12:00 PM)	http://eproc.rajasthan.gov.in
4	Opening of Technical Bid	01.02.2017 (03:00 PM)	http://eproc.rajasthan.gov.in
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	http://eproc.rajasthan.gov.in

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, www.sppp.rajasthan.gov.in & <http://eproc.rajasthan.gov.in> & can be uploaded on the website <http://eproc.rajasthan.gov.in>. No hard copy of the bidding documents will be provided to the bidders through this office. In case of any discrepancy found in the bidding documents downloaded from the website and appended with the bid (as a bid document) and the original copy of such document available in the office of Superintending Engineer (MM&C), Jodhpur Discom, Jodhpur then the copy available with Superintending Engineer (MM&C), Jodhpur Discom, Jodhpur will be considered as final document for all purposes. The scheduled date and time to deposit the cost of Bid document, EMD or Valid Vendor Registration Certificate (if applicable) and furnishing of tender processing fee, be as stated/mentioned in published Notice Inviting Tender/tender document.

SECTION-III**TECHNICAL SPECIFICATION AND SCHEDULE OF REQUIREMENT AGAINST TN-1295 FOR SUPPLY OF ISI MARKED TWO CORE LT PVC INSULATED AND PVC SHEATHED ARMoured CABLES.****1. SCOPE:**

1.1 This section provides for manufacture, testing before dispatch, supply and delivery F.O.R. destination of **ISI Marked** Two Core LT PVC Insulated and PVC Sheathed Armoured Circular Cables with Aluminium Conductor suitable for working voltage up to & including 1100 Volts & Conforming to IS:1554(Pt.-I)/1988 with latest amendments. The requirement of Two Core LT PVC Insulated Armoured Cables 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. **The cables shall be ISI marked.**

2. STANDARDS:

Unless otherwise stipulated in this specification the following standards with latest amendments shall be applicable. Any departure from the Standards be indicated in **Schedule-III**.

- i) IS:1554(Pt.-I)/1988 : PVC Insulated (Heavy Duty) cables for working voltages up to and including 1100 Volts.
- ii) IS:8130 : Conductors for insulated cables.
- iii) IS:5831 : PVC insulation and sheath of electric cables.
- iv) IS:10810 : Methods of test for cables.
- v) IS:3975/1979 : Galvanized Steel Wire/Strips.
- vi) IS:10418 : Drums for electric cables.

3. CLIMATIC CONDITIONS:

- i) Peak ambient temperature in shade 50 deg.C
- ii) Maximum average ambient temperature in a 24 hours period in shade. 40 deg.C
- iii) Min. ambient air temperature in shade (-)5 deg.C
- iv) Maximum temperature attainable by an object exposed to sun. 60 deg.C
- v) Maximum relative humidity. 100%
- vi) Average number of thunder storm days per annum. 40
- vii) Average number of rainy days per annum. 100
- viii) Average annual rainfall 10 to 100 cm
- ix) Number of months of tropical monsoon conditions. 4 months
- x) Maximum wind pressure. 195 Kg/sq.mm.
- xi) Altitude not exceeding 1000 M

4. GENERAL REQUIREMENT:

4.1 The LT PVC Insulated Armoured cables shall conform to IS:1554 (Pt.-I)/1988 with latest amendment and **bear BIS certification mark**. The material used for construction of the cables shall be of best qualities complying with the requirements of IS:1554 (Pt.-I)/1988 and other relevant standards. The cables shall be suitable for outdoor / indoor installation free in air and shall be capable of withstanding the normal stresses associated with transportation, erection, reeling and unreeling operations without getting deformed.

4.2 The cable shall be suitable for use where combination of ambient temperature and temperature rise due to load results in a conductor temperature not exceeding 85 degree C under normal operation and 160 degree C under short circuit condition.

4.3 The LT PVC Insulated Armoured Cable shall be **ISI marked. The bidder should be a manufacturer of tendered item. The offers from Sole Selling Agents / Authorised Dealers shall not be entertained. The bids from the trading firms shall not be considered.**

The technical bid of the bidder shall be considered for opening in the absence of non-furnishing of above required ISI License along with the bid. However, Price bid of the responsive bidder shall only be opened if bidder furnishes above valid BIS License up to the official working hours of one working day prior to the schedule / notified date of opening of price bid, along with undertaking on NJS of Rs. 100.00 duly notarised that BIS License so furnished is valid till date and same has not been withdrawn/cancelled by Bureau of Indian Standard, failing which price bid of the bidder shall not be opened.. Similar undertaking of validity of BIS License be also furnished by the bidder who furnishes BIS License along with Technical Bid. The firms having ISO: 9001 will be preferred.

5.0 MATERIAL:

5.1 CONDUCTOR:

The conductor shall be composed of plain aluminium wires complying with IS:8130/1984 with latest amendments.

The bidder must guarantee the minimum weight of Aluminium in Kg/Km corresponding to nominal cross sectional area of conductor as mentioned in the G.T.P.

5.2 INSULATION:

Insulation shall be **LT PVC Type-C** conforming to the requirements given in Table-I of IS: 1554(Pt.-I) / 1988 with latest amendments.

5.3 FILLERS AND INNER SHEATH :

5.3.1. The filler and the Inner Sheath shall be of un-vulcanized rubber or Thermoplastic material or proofed tape.

5.3.2. The filler materials shall be so chosen so as to be compatible with temperature of the cable and shall have no deleterious effect on other components of the cable. These shall not be harder than PVC used for insulation and outer sheath respectively.

5.3.3 The Central hole/void, if any, of the cable shall be invariably filled with suitable filler material so that there is no gap in the center.

5.4 ARMOURING :

Armouring shall be galvanized round steel wires.

5.5 OUTER SHEATH:

The outer sheath shall consist of type ST-2 PVC Compound conforming to the requirements of IS:5831/1984.

6. CONSTRUCTION:

6.1 CONDUCTOR:

The construction of the conductor shall be solid for 2Cx4 Sq.mm. as per Clause No.8.1 of IS:1554(Pt.-I)/1988 & relevant clause of IS:8130/1984 with latest version.

A protective barrier may be applied between the conductor and insulation. Such barriers when used, shall be compatible with insulating material and suitable for the operating temperature of the cable.

6.2 INSULATION:

The conductor (with protective barrier, wherever applied) shall be provided with PVC Type-C insulation applied by extrusion. The insulation shall be so applied that it fits closely on the conductor and it shall be possible to remove it without damage to the conductor. The thickness and tolerance on thickness of insulation shall be as per Clause No.9.2 of IS:1554(Pt.-I)/1988 amended upto date.

6.3 CORE IDENTIFICATION:

The core shall be identified by different colouring of PVC insulation as per Clause No.10.1 of IS:1554(Pt.-I)/1988 with latest amendments.

6.4 LAYING UP OF CORES:

The cores shall be laid up together with the suitable right hand lay. The interstices shall be filled with non-hygroscopic material.

6.5 INNER SHEATH (COMMON COVERING):

6.5.1 The laid up cores shall be provided with an inner sheath applied either by extrusion or by wrapping. **However, application of inner sheath by EXTRUSION shall be preferred.** It shall be ensured that it is as circular as possible. The thickness of inner sheath shall be as given in Table-4 of IS: 1554(Pt.-I)/1988 with latest amendments.

6.5.2 The inner sheath shall be so applied that it fits closely on the laid up cores and it shall be possible to remove it without damage to the insulation.

6.6 ARMOURING :

6.6.1 Application:- Armouring shall be applied over the inner sheath. The armour Wire / Strip shall be applied as closely as possible with a coverage of not less than 90%.

6.6.2 The direction of lay of armour shall be left hand. A Binder Tape may be provided on the armour.

6.6.3 Type of Armour & Dimension :- The armour shall consist of **galvanized round steel wires for cable size 2Cx4 Sq.mm.** with the dimensions as specified in Table-5 of IS:1554(Pt.-I)/1988 with latest amendments.

6.6.4 Joints:- The joints in the armour wire shall be made by brazing or welding and the surface irregularities shall be removed. A joint in any strips shall be at least 300 mm. from the nearest joint in any other armour strip in the completed cable.

6.7 OUTER SHEATH:

6.7.1 The outer sheath shall be applied by extrusion over armouring.

6.7.2 The colour of the outer sheath shall be black.

6.7.3 The minimum thickness of PVC outer sheath shall not fall below the nominal thickness (t_s) specified in Table-7 of IS:1554(Pt.I)/1988 with latest amendments.

7. TESTS AND TEST CERTIFICATES:

7.1 The cables should meet the requirement of all tests including optional tests as specified at Clause No.15 of IS:1554(Pt.1)/1988 with latest amendments.

The following shall constitute Routine Test:

- i) Conductor resistance test.
- ii) High Voltage test.

The following shall constitute Acceptance Tests:

- i) Tensile test (for Aluminium).
- ii) Wrapping test (for Aluminium).

- iii) Conductor resistance test.
- iv) Test for thickness of Insulation & Sheath.
- v) Tensile strength & elongation at break of insulation & sheath.
- vi) Insulation resistance (Volume Resistivity) test.
- vii) High Voltage test at room temperature.
- viii) Test for Armour:
 - a) Verification of Dimension of Wire / Strip.
 - b) Tensile Strength & elongation at break.
 - c) Uniformity of Zinc Coating.
 - d) Weight of Zinc Coating.
 - e) Winding Test on Armour.
 - f) Resistivity Test on Armour.

The following shall constitute Optional Tests:

- i) Cold Bend Test.
- ii) Cold Impact Test.

The following shall constitute Type Tests:

- a) Tests of Conductor:
 - i) Tensile test (for aluminium)
 - ii) Wrapping test (for aluminium)
 - iii) Conductor resistance test.
- b) Test for Armouring Wire / Strip.
- c) Tests for thickness of insulation and sheath.
- d) Physical tests for insulation and outer sheath:
 - i) Tensile strength and elongation at break.
 - ii) Ageing in air oven.
 - iii) Shrinkage Test
 - iv) Hot deformation
 - v) Loss of mass in air oven.
 - vi) Heat Shock Test.
 - vii) Thermal Stability.
- e) Insulation resistance (Volume Resistivity test)
- f) High voltage test (Water immersion test)
- g) High voltage test at room temperature
- h) Flammability test.
- i) Any other test as per relevant ISS.

7.2 TYPE TESTS :

The material offered, shall be fully type tested as per relevant standard of specification of IS:1554 (Part.1/1988) amended up to date. **The bidder must furnish type test reports of similar rating & design of tendered material along with bid as detailed at Schedule-III A “Pre-Qualification Requirement”.**

7.3 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.

7.4 However, the purchaser reserves the right to demand repetition of same or all the type tests in presence of purchaser’s representative.

7.5 The bidding firms (manufacturers) must have valid ISI license for the offered cable. The bidder shall furnish the details of ISI License granted to them.

8. INSPECTION (TEST BEFORE DISPATCH):

8.1 The inspection may be carried out by the purchaser at any stage of manufacturer. The Inspection & Testing shall be governed by Clause No. 1.27 of Section-II (General Conditions Of Contract). 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.

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

8.3 The acceptance tests as per IS:1554(Pt.I)/1988 amended upto date shall also be conducted by the manufacturer before dispatch in the presence of our Representative/Inspecting Officer as per Clause No.1.27 ‘Inspection & Testing’ of "General Conditions of Contract" Section-II along with verification of lengths & weight and checking the manufacturing defects, if any of samples coils. The mass of Aluminium, PVC & Filler in sample coils shall also be verified by the Inspecting Officer(s).

Cold bend/ cold impact test (IS:5831/1984) with latest amendments shall constitute the optional tests and shall be conducted on first lot and any from other lot of the offered cables of each size as per Clause No.15.4 of IS:1554(Pt-.I)/1988 with latest amendments.

8.4 The purchaser reserves the right to insist or witnessing the acceptance/routine tests of the bought out items.

8.5 The bidder shall furnish Packing list mentioning serial Nos. of Drums, length in each drum, gross weight of drum without lagging alongwith inspection offer duly signed by the

authorized representative of the firm. The purchaser reserves the right to insist for witnessing the acceptance / routine tests of the bought out items.

8.6 At least 5% of total numbers of drums subject to minimum of 2 drums in any lot put up for inspection shall be selected at random to ascertain the length/ workmanship of cable by the following method :

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

8.7 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. Laboratory or any independent test laboratory/house having valid accreditation from National Accreditation Board for Testing and Calibrating Laboratories for the testing equipments / original manufacturer having trace ability to NABL/NPL or equivalent.

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).

9. TYPE TESTS ON SAMPLE(S) TO BE SELECTED FROM MATERIAL RECEIVED IN STORE:

9.1 The first lot offered for Inspection shall not be less than 10% of ordered quantity of each size of LT PVC Insulated Armoured Cable or minimum quantity of 20 Kms. whichever is more.

9.2 If the bidder has already got conducted the requisite type test from the 1ST lot of material received in Nigam's Store against any previous / earlier tender of JdVVNL and such Type Test reports are valid i.e. not older than 5 Years on the date of opening of Techno-Commercial Bids, then the requirement of conducting Mandatory Type Test on the sample selected from 1st lot of supply received in Nigam's Store is RELAXED. For this purpose date of conducting type test will be considered.

ALTERNATIVELY

In case the bidder do not meet above requirement then One sample of 15 Mtr. Length from the 1st Lot of each size of LT PVC Insulated Armoured Cable as received in purchaser's store shall be selected and sealed in the presence of representative of supplier for getting it Type Tested at Govt. / Govt. approved / Govt. Recognized / NABL accredited Laboratory / ILAC Accredited.

However, suppliers own lab shall not be considered for the purpose of type test reports. **The selected and sealed sample for type test shall be identified by providing Polycarbonate Seals on both ends of cable and two stickers 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. The name of the Test House shall be intimated separately.**

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) The supplier shall have to pay the type test charges again for testing of fresh sample for which the testing charges should be remitted through D.D. in favour of Test House.

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 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 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.**

10. 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. The selected sample drum / drums shall be transported to CTL by concern ACOS / S.S. of Nigam.**

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 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) SAMPLING:

One number Drum out of each lot / sub-lot of 25 Nos. Drums or part thereof for the material received in Stores of Nigam.

v) **TESTS:** The following tests shall be carried out as per relevant clause of latest IS on each selected drum by drawing sample of 10 Mtr. at CTL from random distance during re-winding:

- a) Rewinding test (Measurement of Length) & Checking of Manufacturing defects.
- b) Measurement of Resistance of conductor.
- c) Tensile strength & Elongation at Break Test for Insulation & Sheath
- d) Test for Thickness of Insulation & Sheath
- e) Test for Armour:
 - i) Verification of Dimension of Wire / Strip.
 - ii) Tensile Strength & elongation at break.
 - iii) Uniformity of Zinc Coating.
 - iv) Weight of Zinc Coating.
 - v) Winding Test on Armour.
 - vi) Resistivity Test on Armour.
- f) Verification of Marking.

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.

vi) CRITERIA FOR ACCEPTANCE:

- a) If the measured conductor resistance of the sample(s) exceeds beyond 2% as per the resistance specified in the contract, the material shall be rejected and the same shall have to be replaced by the supplier.
- b) If the measured conductor resistance of the sample(s) exceeds the value specified in the contract but does not exceed by more than 2% of the resistance value specified in the contract, the material pertaining to the relevant lot / sub-lot shall be accepted with a deduction @ 1.5% of the cost of cable for increase in resistance for every 1% or part thereof.
- c) If the sample(s) fails in any other test, the material contained in the pertinent lot/sub-lot shall be rejected and shall have to be replaced by the supplier.
- 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).
- e) 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 cable in a Sample Drum.

11. TEST CHARGES :

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

12. 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 fee are proposed at least three time 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 products 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.

13. IDENTIFICATION:

13.1 The manufacturer shall be identified through-out the length of cable as per Clause No.17.1 of IS:1554(Pt-I)/1988 with latest amendments.

13.2 In order to distinguish these electric cables from telephone cables the word 'ELECTRIC' shall be indicated, printed or embossed throughout the length of the cable on outer sheath.

13.3 The cable code shall be used as per Clause No.17.3 of IS:1554(Pt-I)/1988 amended up to date.

13.4 The cable shall also be required to be embossed with the word 'Name of Manufacturer or trade name, Cable code, Voltage Grade, NAME OF DISCOM/ TN-___, size of cable & year of manufacture' at every meter length for which no extra charges shall be paid. **The cable should be ISI marked & same should be embossed on the outer sheath of every meter of length of cable.**

14. MARKING:

The progressive length of cable shall be marked on the outer sheath of every meter length of cable.

15 PACKING AND MARKING:

15.1 The cables shall be wound on non-returnable wooden drums conforming to IS:10418/1982 with latest amendments of suitable size and packed. The ends of the cable shall be sealed by means of non-hygroscopic sealing material. Only one cable length shall be supplied on a drum. The shaft diameter of Drum shall be as per relevant ISS but not less than 50 mm. The cable can also be supplied on M-Steel Drums as per relevant ISS as applicable.

15.2 The cable shall carry the following information stenciled / painted on the drum :

- i) Reference to this Indian Standard, for example, Ref IS:1554 (Part-1).
- ii) Manufacturer's name, Brand name or trade mark.
- iii) Type of cable and voltage grade.
- iv) Number of Cores.
- v) Nominal Cross-sectional area of the conductor.
- vi) Cable Code.
- vii) Length of cable on the drum.
- viii) Approximate gross weight.
- ix) Year of manufacture.
- x) BIS Certification mark.
- xi) Name of the Consignee and full destination.
- xii) Bid number/Purchase Order No.

xiii) The word SUITABLE FOR OUTDOOR USE & LOW TEMPERATURE CONDITIONS.

16 STANDARD LENGTH:

16.1 The cables shall be supplied in the standard length of 1000 Meters for 2Cx4 Sq. mm.

16.2 A tolerance (+/-) 5% shall be allowed in standard length.

16.3 Only one cable length shall be acceptable by non-standard length measuring not less than 50% of standard length to complete the ordered quantity in each size.

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-IV**.

18 QUANTITY TOLERANCE:

The quantity tolerance of (+/-) 2% shall be allowed in each size for completion of supply.

19. DETAILS OF PAST EXPERIANCE:

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.

20. GUARANTEED TECHNICAL PARTICULARS:

The bidder shall furnish guaranteed technical particulars in the relevant **Schedule VA & VB**. Any departure from the G.T.P be indicated in **Schedule-V**.

21. DRAWING & DOCUMENTATION:

The bidder is required to furnish the detailed constructional drawings of cable clearly showing shape of Core, Type, Size of Fillers / Interstices along with Center Filler etc. The calculations of weight of different components of the cable shall also be furnished. In absence of this, the bids are likely to be ignored. The drawings of drums shall also be furnished as per relevant applicable ISS.

22. DELIVERY SCHEDULE:

The bidder is required to quote monthly delivery in **Schedule-VIII**. **The delivery of quoted quantity should be as under:**

Commencement : After 30 days from the date of receipt of purchase order.
Completion : In Five months thereafter at equal monthly rate .

In case of ordered quantity is different than the quoted quantity, then monthly delivery shall be adjusted proportionately. **Bids of bidders in which monthly delivery rate is not quoted shall be considered as Non-Responsive.**

23. PRICES :

- a) The bidder shall quote the Prices in **Schedule-IV** strictly in the manner prescribed in Clause No. 1.09 of Section-I (Instruction to Bidders) & Clause No. 1.33 of Section-II (General Conditions of Contract).
- b) The **prices** quoted shall be **variable as per PV formula** given in the specification at **Schedule-II** without any ceiling with **Base Date** as **1st day of one month prior to the date of opening of technical bid**. The Price Variation shall be governed by Clause No. 1.10 of Section-I (Instruction to Bidder).

SCHEDULE-I**SCHEDULE OF REQUIREMENT**

ISI MARKED TWO CORE LT PVC INSULATED & PVC SHEATHED ARMOURED CIRCULAR CABLES WITH ALUMINIUM CONDUCTOR SUITABLE FOR OUTDOOR USE AND LOW TEMPERATURE CONDITIONS FOR WORKING VOLTAGE UPTO AND INCLUDING 1100 VOLT CONFORMING TO IS:1554(P.T.I) /1988 AMENDED UPTO DATE.

S. No.	ITEM	APPROX. QUANTITY
1.	ISI marked LT PVC insulated PVC sheathed 2CX 4 Sq.mm. Armoured Cable	8,290 Kms

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

SCHEDULE-II**PRICE VARIATION FORMULA FOR LT PVC ARMOURED CABLE AGAINST TN-1295**

$$P = P_o + ALF (A_I - A_{I_o}) + CCFAI (C_c - C_{c_o}) + FeF (Fe - Fe_o)$$

P = Up-Dated Ex-Works price per Km.

P_o = Ex-Works price quoted per Km.

ALF = Variation Factor for Aluminium

A_o = Price per MT of EC grade Aluminium rods (properzi rods).

This price is as on 1st day of one month prior to the date of opening of technical bid (Base Date).

A_I = Price per MT of EC grade Aluminium rods (properzi rods). This price is applicable on first working day of month, one month prior to date of delivery.

CCFAI = Variation factor for PVC compound / polymer for Aluminium Conductor cable.

C_o = Price of PVC compound

This price is as on 1st day of one month prior to the date of opening of technical bid (Base Date).

C_c = Price of PVC compound. This price is applicable on first working day of month, one month prior to date of delivery.

FeF = Variation factor for Steel

Fe_o = Price of Steel Wire

This price is as on 1st day of one month prior to the date of opening of technical bid (Base Date).

Fe = Price of Steel Wire. This price is applicable on first working day of month, one month prior to date of delivery.

BASE DATE : 1st day of one month prior to the date of opening of technical bid

The date of delivery (i.e. date of readiness of material) is to be considered as per Clause No. 1.10 of Section-I (Instruction to Bidders).

- NOTE:** 1. IEEMA prices will be exclusive of excise duty and other taxes.
 2. No variation shall be allowed on labour, packing, forwarding, freight and insurance charges.
 3. Any statutory variation on ED and CST / VAT on the finished Cable shall be payable according to Clause No.1.09.15 of Section-I “ Instructions to Bidders”.

Size of cable	Alf	CCFAI	FeF
a) 2CX 4 Sq.mm	0.023	0.156	0.305

SCHEDULE-III**JODHPUR VIDYUT VITARAN NIGAM LTD., JODHPUR****A Govt. of Rajasthan Undertaking
Prescribed technical specification for supply of**

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

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.
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As per clause no. 2 of section –III of attached Specification

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.
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(Signature)

Name & Designation with seal of the bidder.

SCHEDULE-III-A**PRE- QUALIFICATION REQUIREMENT (PQR) FOR PURCHASE OF ISI MARKED TWO CORE LT PVC INSULATED AND PVC SHEATHED ARMoured CABLES CONFORMING TO IS : 1554(Pt.-1) / 1988 AMENDED UPTO DATE AGAINST TN- 1295.**

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.

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.

2.0 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 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, 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**

3.0.1 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 Corporation (In case of foreign laboratory) of similar rating and design of tendered material (with Carbon Black Contents in PVC Insulation) .

The bid of the bidders be also considered for meeting the Type Test criterion if the bidder have the requisite type test conducted successfully on the samples selected from the 1st Lot (**If Applicable**) supplied to **JdVVNL** against previous tenders and its report are available with the Nigam & 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 certificates should not be older than **five** years as on the date of bid opening. For this purpose date of conducting type tests will be considered.

The type test certificates by in house laboratory of bidding firm 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.

- 3.0.2 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)
- 3.0.3 The type test certificates shall be furnished either in original or duly attested by notary.
- 3.0.4 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.
- 3.0.5 However, in 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. approved / Govt. recognized / NABL Accredited laboratory / ILAC Accredited laboratory shall be furnished from first lot received in Nigam store (without asking any delivery extension) along with bank guarantee with the technical bid from a Nationalized / Scheduled Bank in prescribed proforma at Schedule-III C or DD / Pay Order amounting to **value as detailed below**. 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 report of higher rating material.

Amount of Bank Guarantee in lieu of type test	
For Rajasthan based firms	For Outside Rajasthan based firms
1.25 Lacs	5.0 Lacs

4.0 POOR RECORD OF PERFORMANCE AND DELIVERY:

The bidder who has been black listed in any of the state Discom or with whom business relations have been severed in 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.

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

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

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

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

(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.

Signature of bidder With stamp
Dated

SCHEDULE-III-B

BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE
(On Rajasthan Govt. Non-Judicial Stamp Paper worth Rs.0.25% of BG value or Rs.
25000/- whichever is less)

To,

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

Dear Sir,

Whereas Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur (hereinafter called the purchaser) has issued a bid enquiry under TN-1295 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 Vitaran Nigam Limited, Jodhpur or his Nominated officer (s) .

Whereas in accordance with the provision of the specification of the aforesaid 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 Vitaran 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 Vitaran 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

Witness:

- 1.
- 2

Schedule-IV `A`**TN-1295****ITEM- TWO CORE LT PVC INSULATED PVC SHEATHED ARMOURED CABLE.****Must be filled in by the bidder and attached with Technical Bid (Part-I)**

To,

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

Dear Sir,

With reference to your invitation to bid against specification No.JD/SE/MM&C/XENIIAII/
TN- 1295, we agree to supply the following quantity:

S. No.	Particulars of Items	Tendered Quantity	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
2.	ISI marked LT 2C X 4 Sq. MM. LT PVC Insulated and PVC Sheathed Armoured Cables	8,290 Kms.			

1. The offer is valid for a period of 120 days from the next date of opening of Techno-Commercial bid.
2. The prices are variable with **base date 1st day of one month prior to the date of opening of technical bid.**
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- 1295 and as per relevant ISS in all respect.
5. We conform that we agree to all the terms & conditions as well as the technical stipulation of your specification No. JD/SE/MM&C/XENIIAII/ TN- 1295 and there are no deviations other than as specified in the **Schedule-III, V,VI (A & B).**

Yours faithfully,**Signature of bidder with stamp & Date**

SCHEDULE – V**JODHPUR VIDYUT VITARAN 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-V A**GUARANTEED TECHNICAL AND OTHER PARTICULARS FOR THE SUPPLY OF ISI MARKED LT 2C X 4 Sq. MM. LT PVC INSULATED AND PVC SHEATHED ARMoured CABLES AGAINST TN-1295**

S. No.	Particulars	Unit	2 CORE PVC ARMoured CABLES IN SQ.MM.	
			2CX4	
1.	Manufacturer's name and works address			
2.	Standard specification to which the material shall conform.		IS:1554(Part-I):1988 with latest amendment	
3.	VOLTAGE GRADE		1100V	
4.	NO. OF CORES		2C	
5.	<p>CONDUCTOR DETAILS :</p> <p>a) Nominal cross section area of :</p> <p>I) Phase Conductor(sq.mm)</p> <p>ii) Neutral Conductor (Sq.mm.)</p> <p>b) No. and size of strands(in mm) of :</p> <p>I) Phase Conductor(sq.mm)</p> <p>i) Neutral Conductor (Sq.mm.)</p> <p>c) SHAPE OF CONDUCTOR</p> <p>d) Whether compacted or non compacted</p> <p>e) Resistance</p> <p>I) Phase Conductor(Ohm/Km)</p> <p>ii) Neutral Conductor (Ohm/Km)</p>		<p>4</p> <p>4</p> <p>As per IS-8130/1984 with latest amendment</p> <p>As per IS-8130/1984 with latest amendment</p> <p>To be furnished by the bidder</p> <p>To be furnished by the bidder</p> <p>7.41</p> <p>7.41</p>	<p>SOLID</p> <p>SOLID</p>
6.	<p>INSULATION</p> <p>I) Type</p> <p>ii) Colour</p> <p>iii) Thickness</p> <p>A) Phase Conductor(sq.mm)</p> <p>a) Nominal (mm)</p> <p>b) Minimum (mm)</p> <p>B) Neutral Conductor (Sq.mm.)</p> <p>a) Nominal (mm)</p> <p>b) Minimum (mm)</p>		<p>PVC Type-C As per IS:1554(Part-I):1988 with latest amendments</p> <p>Red & neutral Black</p> <p>As per Table-2 of IS-1554 (Part-I):1988 with latest amendments</p> <p>As per Table-2 of IS-1554 (Part-I):1988 with latest amendments</p>	
7.	<p>Inner Sheath:</p> <p>a) Material & Colour</p> <p>b) Process of Application</p> <p>c) Minimum thickness of inner sheath</p>		<p>To be furnished by bidder</p> <p>To be furnished by bidder</p> <p>As per Table - 4 of IS-1554 (Part-I):1988 with latest amendments</p>	
8.	Whether Binder Tape provided		As per IS:1554(Part-I):1988 with latest amendments	
9.	<p>Armouring</p> <p>I) Material</p> <p>ii) Nominal Dimension of Armour</p> <p>iii)Whether galvanized or not</p>		<p>To be furnished by bidder</p> <p>1.40 mm</p> <p>Yes, Galvanized</p>	

	iv) Total number of Armour strips		To be furnish by bidders the Requisite numbers alongwith Calculation, to ensure coverage of not less than 90%.
10.	Outer Sheath I) Material ii) Thickness a) Nominal (mm) b) Minimum (mm) iii) Standard to which it conform		Extruded PVC ST-2 type as IS 5831:1984 with latest amendment As per Table - 7 of IS-1554 (Part-I):1988 with latest amendments As per IS:1554(Part-I):1988 with latest amendment
11.	a) Type and size of filler used b) MIN. WT.OF FILLER IN KG./KM.		As per IS:1554(Part-I):1988 with latest amendment To be furnished by bidder
12.	MAX.OVERALL DIAMETER OF THE CABLE IN MM.		To be furnished by bidder
13.	Nature of Packing		Wooden drum
14.	DRUM		
15.	TARE WEIGHT OF DRUM		To be furnished by bidder
16.	a) Minimum weight of Aluminium in Kg./Km. corresponding to nominal cross sectional area of conductor.(guaranteed) b) Total weight armouring Kg/ Km. c) Total weight of PVC contents Kg/ Km (Inner / Outer Sheath / Filler) d) Total weight of PVC in Kg./Km.(Min.) e) Total weight of finished cable Kg/Km.		21.6 To be furnished by bidder To be furnished by bidder To be furnished by bidder To be furnished by bidder
17.	Standard length of cable in meters & it's Tolerance.		----- 1000(+/-5%) -----
18.	Whether material bears BIS certification mark		YES , ISI MARKING embossed on outer sheath
19.	BIS license no. & validity		To be furnished by bidder
20.	Embossing		As per specification of TN-1295
21.	Any other particulars		

(Signature)

Name & Designation with seal of the bidder

		SCHEDULE-VB
GUARANTEED TECHNICAL AND OTHER PARTICULARS OF DRUM FOR SUPPLY OF TWO CORE LT PVC INSULATED ARMoured CABLES AGAINST TN-1295		
S.No.	PARTICULARS	LT PVC ARMoured CABLES 2CX4Sq.mm
A	Drum Size (in mm)	
B	Flange Diameter(d1) (mm)	
C	Barrel Diameter(d2) (mm)	
D	Centre hole Diameter(d3) (mm)	
E	Overall width (L1) (mm)	
F	Traverse (L2) (mm)	
G	Thickness of Flange	
H	Barrel End (supporting disc or core segment)	
a)	Diameter (mm)	
b)	Thickness (mm)	
I	Stretchers(Core Carrier Planks)	
a)	Number (Min)	
b)	Thickness x width (mm)	
J	Barrel Battens thickness (Core Filler Planks)	
K	Barrel Middle Supports (Middle Core discs)	
L	Thickness of External Laggings.(mm)	
	DETAILS OF METAL COMPONENTS:	
M	Clamping Studs with Hexagonal Nuts	
a)	Numbers	
b)	Diameter (mm)	
N	Square or Round Washers	
a)	Numbers	
b)	Diameter (mm)	
O	M.S. Bushes	
a)	Numbers	
b)	Thickness of Sleeve (mm)	
c)	Dimension of Sleeve (mm)	
d)	Number of Bolts	
e)	Diameter of Bolts	
P	M.S./ C.I. Centre Plate	
a)	Numbers	
b)	Dimensions of Square/ Triangular equal sides (mm)	
c)	Centre Plate Bolts.	
Q	Numbers	
i)	Diameter of bolts (mm)	
ii)	Centre Hole Diameter (mm)	

As per IS:10418/1982 with latest amendments

(Signature)

Name & Designation with seal of the bidder.

SCHEDULE – VI (A)

JODHPUR VIDYUT VITARAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION

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

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

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

SCHEDULE – VI (B)

JODHPUR VIDYUT VITARAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

**DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE
SPECIFICATION**

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

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

(Signature)

Name & Designation with seal of the bidder.

SCHEDULE – VII**JODHPUR VIDYUT VITARAN 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 /Organizations.

(Signature)

Name & Designation with seal of the bidder.

SCHEDULE-VIIA**TN-1295****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 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		
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**JODHPUR VIDYUT VITARAN NIGAM LIMITED****DELIVERY SCHEDULE****TN-1295****PART – A**

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

S.No	Particular Of Material	Commencement Period	Rate Of Supply per Month	Period for Completion of delivery of Entire material
1	LT PVC Insulated PVC Sheathed Two Core Cable of size 4.0 sq. mm.	After 30 Days from the date of receipt of detailed Purchase Order.	Equal monthly rate thereafter	In Five Months thereafter at equal monthly rate

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:-

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 VITARAN 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