

**JODHPUR VIDYUT VITARAN NIGAM LIMITED
(MATERIAL MANAGEMENT & CONTRACT)****NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR -342003****TELEPHONE: 0291-2742223/ FAX: 0291-2746539/E-mail-semmcjdvvnl@gmail.com****Corporate Identity Number (CIN)-U40109RJ2000SGC016483 GST No. 08AAACJ8578R1ZJ****TENDER SPECIFICATION NO. JdVVNL/SE(MM&C)/EIIAI/TN-1406**

Tenders are hereby invited in e-tender system for purchase of **11 KV 45 KN DISC INSULATORS "T&C" & "B&S" TYPE.**

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	11 KV 45 KN DISC INSULATORS "B&S" TYPE	34354 Nos.
2	11 KV 45 KN DISC INSULATORS "T&C" TYPE	558090 Nos.

A	NIT No.	TN-1406	
B	Cost of tender specifications	Rs.2950.00 (Two Thousand Nine Hundred Fifty Only)	
C	Processing fee of RISL	Rs.1000.00 (One Thousand Only)	
D	Bid security to be deposited		
		45 KN "B&S" Type	45 KN "T&C" Type
	General Bidder :	Rs 1,58,530.00	Rs 24,73,901.00
	Sick Unit of Rajasthan:	Rs 79,265.00	Rs 12,36,951.00
	SSI unit of Rajasthan:	Rs 39,633.00 *	Rs 6,18,475.00 *
E	Validity	120 days from the next date of opening of techno-commercial bid.	
F	Base date for price variation	1st day of one month prior to the date of opening of technical bid.	

***In case SSI unit of Rajasthan quotes quantity less than the tendered quantity , then they are required to furnish Bid security @ 0.5% of the estimated value of the quantity offered by them, failing which bid shall be considered non-responsive.**

The micro , small & Medium Scale Industries of Rajasthan and sick Industries , other than Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self attested documentary evidence duly attested by notary to claim the above.

IMPORTANT DATES

S.N.	Events	Date & Time	Location
1	Date of downloading of tender specifications	Up to 02.04.2018 (06:00 PM)	www.jdvvnl.com & http://eproc.rajasthan.gov.in
2	Deposit of cost of Tender Specifications & Earnest Money and furnishing of Processing fee	Up to 02.04.2018 (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 03.04.2018 (12:00 PM)	http://eproc.rajasthan.gov.in
4	Opening of Technical Bid	03.04.2018 (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

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1. Tender documents will be made available on e-Tendering portal www.eproc.rajasthan.gov.in The bidders, in their own interest are requested to read very carefully the tender document before submitting the bid only through online on website www.eproc.rajasthan.gov.in . The bidders can download bid up to 04:00 p.m. one day prior to schedule date of opening of respective bid mentioned above documents and submit their bids online up to 12:00 p.m. on schedule of respective bid mentioned above.
2. Eligible bidders should submit their bid well in advance instead of waiting till last date JdVVNL will not be responsible for non-submission of bids due to any website related problems.
3. The cost of Tender specification **Rs. 2950/-** (Non-Refundable) to be paid by Demand Draft in Favour of the Sr. Accounts officer(Cash & CPC), JdVVNL, Jodhpur and tender processing fees Rs. **1000/-** shall be payable by demand draft in favour of The Managing Director RISL, Jaipur (Non-Refundable). The bidders are required to deposit all these payments in the office of the SE(MM&C), JdVVNL, Jodhpur up to 4.00 PM one day prior to date of tendering otherwise their bids are liable to be rejected.
4. The Bid Security amount (as applicable) to be paid by demand draft/banker's cheque in favour of SR.AO(CASH & CPC), JDVVNL, Jodhpur (Payable at jodhpur) **342003 up to 4.00 p.m upto one WORKING day prior to schedule date of opening** of respective bid or Bank guarantee, in specified format, of a scheduled bank in favour of superintending Engineer (MM&C), JDVVNL, Jodhpur **up to 4.00 p.m. up to one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, the bidder shall also furnish self attested and duly attested by Notary, the documentary evidence of SSI unit of Rajasthan or of sick unit (as applicable). Along with affidavit as per schedule X on non-judicial stamp of Rs. 100.

The Bank Guarantee against Bid Security be issued by Nationalized / Scheduled Bank. The same may be accepted after confirmation by issuing Bank. If any Bid Security Bank Guarantee is not in proper format / not confirmed by the issuing Bank the same would not be accepted and the bidder would be immediately sorted out from bid process.

SECTION-III**TECHNICAL SPECIFICATION FOR****(1) 11 KV 45 KN DISC INSULATORS T&C TYPE.****(2) 11 KV 45 KN DISC INSULATORS B&S TYPE****3.01 SCOPE :**

3.01.1 This section covers for the design, manufacture, testing at manufacturer's works before dispatch, supply and delivery of Disc Insulators Tongue & Clevis type and Ball & Socket type for various overhead 33 KV and 11 KV Power Lines and overhead 132/33 KV Power Lines. The description of insulators & string arrangements has been given in **Appendix-II**.

3.01.2 The technical specifications, contained here in, are for the guidance of the tenderers. Any deviation from the Purchaser's specification will be considered on their relative merits in respect of performance, efficiency, durability and overall economy consistent with the requirements stipulated herein after. Such deviations shall be clearly entered by the tenderer in the form as per schedule-VI (A&B) of the specification.

3.02 STANDARDS :

The Disc Insulator shall comply in all respects with the Indian Standard Specifications IS:731-1971 (Second Revision), IS:3188-1980, IS:2486 (Part-I)-1993 (Second Revision), IS:2486 (Part-II) 1989 (Second Revision) and IS:2486 (Part-III) 1974, IS:2486 (Part-IV) 1981 with latest amendments. The galvanisation of metallic parts shall conform to IS:2633/1972 (Latest amendments). The Insulator String shall consist of discs (B&S Type) of dimensions specified in Appendix-I, for use on 3 phase, 50 cycle power system. All applicable standards shall be clearly mentioned in schedule-III

3.03 MATERIALS, DESIGN & TYPE :

3.03.1 All the materials used in the manufacture of the insulators shall be of the first class quality. The porcelain shall be sound, free from defects thoroughly vitrified and smoothly glazed.

3.03.2 The glaze shall be brown in colour. The glaze shall cover all the porcelain parts of the insulators except those areas which serve as supports during firing or are left unglazed for the purpose of assembly. The glaze shall be uniform, smooth, hard, dense, continuous and brilliant.

3.03.3 The design of the insulator shall be such that stresses due to expansion and contraction in any part of the insulator shall not lead to deterioration. The porcelain shall not engage directly with hard metal.

3.03.4 Cement used in the construction of the insulator shall not cause fracture by expansion or loosening by contraction and proper care shall be taken to locate there individual parts, correctly during cementing. The cement shall not give rise to chemical reaction with metal fittings and its thickness shall be as uniform as possible.

3.03.5 All parts of different fittings which provide for interconnection shall be made such that sufficient clearance is provided at the connection point to ensure free movement and suspension of the insulator string assembly.

3.03.6 All hardware fittings (except those specified otherwise) shall be made of drop forged steel or heat treated malleable cast iron, and shall be hot dip galvanized after all machining and fittings have been completed. The material used in fittings shall be corrosion resistant.

3.03.7 The locking devices shall be resilient, corrosion resistant and of suitable mechanical strength. The hardness and temper of the material are important for their satisfactory operation.

The locking devices shall retain their locking ability after being operated from the locking to the coupling position at least twenty times, at normal temperature. They should be effective at the lowest temperature likely to be encountered in service.

3.03.8 For Ball & Socket type disc insulators the cap and the pin shall be heavily galvanised and mechanically strong. The ball shall move freely in the cap sockets, but shall be so designed that they do not give way while in service. The dimensions of the pin ball & socket shall be conforming to ISS 2486/part -II. The cap shall be made of malleable cast iron conforming to IS:2108-1977. These shall be free from cracks, shrinks, air holes, burs and rough edges. The caps shall be circular, with inner and outer surfaces concentric and of such design that they will not yield or distort under the stress to the porcelain shells. The pin shall be single piece made of drop forged steel and shall be free from laps, field's burs and rough edges. All bearing surfaces shall be smooth and uniform so as to distribute the loading stresses uniformly. The pins shall be of such a design that they will not yield or distort under loaded condition. They shall not be made by joining, welding, shrink fitting or any other process from more than one piece of material. The locking devices 'W/R' type for Ball & Socket lockers shall be either of Phosphor bronze conforming to IS:7814-1975 or stainless steel conforming to IS:6603-1972 with minimum hardness of 160 HV. The dimensions shall confirm to IS:2486(Part-3)-1974.

3.03.9 The dimension of the clevis and tongue connection shall be as shown in fig.25 and the dimension of cross arm strap shall be as shown in fig.26 of IS:2486/Pt.II/1989 (latest amendments)

The tongue and clevis type porcelain insulators shall be as per fig.2 and its dimension shall conform to table-2 of IS:3188/1980 (latest amendments)

The dimensions of pin ball socket shall be according to fig.8 and 9 respectively of IS:2486 (Part.II/1989) IInd revision.

3.04 CLASSIFICATION SIZE & NO. OF DISCS :

3.04.1 The insulators shall be of type B as specified under clause 5 "Classification" of IS:731-1971(second revision).

3.04.2 The long rod Insulator falling under type A shall confirm to IEC:433-1980(with latest amendments)& IEC-575/1977.

3.05 ATMOSPHERIC CONDITIONS :

3.05.1 Climatic condition : All parts and fittings shall be suitable for atmospheric condition and shall be inherently resistant to atmospheric corrosion or be suitably protected against corrosion both storage & in service :

1. Min. temperature	(-) 2.5 deg.C
2. Max. temperature of air in shade	50.0 deg.c.
3. Average everyday temperature	32.2 deg.c.
4. Max. temperature of conductor carrying current and exposed to sun	67 .0 deg.c.
5. Max relative humidity	90 %
6. Min relative humidity	10 %
7. Isoceraunic level	25
8. Number of rainy days per year	70
9. Annual rain fall	10 to 100 cm

10. Wind pressure(acting on full projected area) 195 kg/sq.cm
 11. Altitude 200M to 1000M

3.05.2 Reference atmospheric conditions at which insulator characteristics shall be expressed for the purpose of comparison shall be as given below :

Ambient Temperature	:	20 degree C
Barometric pressure.	:	1013 millibars.
Absolute humidity.	:	11 g water per cubic metre
corresponding to 63 percent relative humidity at 20 deg.C.		

3.05.3 Tests for the purpose of this specification may be carried out under conditions naturally obtaining at the time of test. The barometric pressure, air temperature and humidity shall be recorded for the purpose of corrections. Corrections of test voltages for atmospheric conditions shall be taken as per Appendix. "A" of IS:731/1971 (second revision) "Correction Of Test Voltages For Atmospheric Conditions".

3.06 TESTING :

3.06.1 Sampling inspection, testing and acceptance of insulators shall be in accordance with the latest revision of IS:731/1971 while that of hardware associated with these discs shall be as per IS:2486(Pt.I)/1993 (second revision) IS:2486(Pt. II)/1989 (second revision) and IS:2486(Pt.III)/1974 & IS:3188-1980 with latest amendments.Sampling inspection, testing and acceptance of long rod insulators shall be in accordance with the latest edition of IEC :433/1980 & IEC:575/1977.

3.06.2 TEST VOLTAGE : The test voltage of the insulators shall be as given in Appendix.II (values given are without applying correction factors).

3.07 MECHANICAL LOADS :

The insulator strings shall be suitable for the minimum failing loads specified in Table-2, clause 7 of IS:731/1971 (IInd Revision). The load shall be supplied axially to the insulator strings.

3.08 MARKINGS :

Each insulator shall be legibly and indelibly marked to show the following :

- Name or trade mark of the manufacturer.
- Month and year of manufacture.
- Minimum failing load in KNewton.

Marking on porcelain shall be originated and shall be applied before firing.

3.09 CREEPAGE DISTANCE :

The tenderer shall specify in his tender the creepage distances of the insulator.These values should not be less than those specified in IS:731-1971 & IS:3188-1980 (Latest amendment).

3.10. TYPE TEST ON SAMPLES SELECTED FROM MATERIAL RECEIVED IN STORES FROM 1st OFFERED LOT :

3.10.1The first lot offered shall not be less than 10% of the ordered qty or of following quantity , whichever is less.

- 11 KV 45 KN Disc Insulator "T&C" Type - 5000 Nos.
 11 KV 45 KN Disc Insulator "B&S" Type - 1000 Nos.

3.10.2 If the bidder has already got conducted the requisite type test from the first 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 than **42 Nos.** sample of each type of Disc Insulators from the 1st lot 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**. 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.

The bidder shall have to deposit type test charge(s) immediately with the supply of 1st lot . If the type test charge(s) are not deposited then acceptance of 2nd offered lot shall be at the discretion of purchaser.

3.10.3 In case sample(s) from first lot fails in type tests then:

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

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(s) 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 for which the testing charges should be remitted through D.D. in favour of the Test House by the supplier with the 2nd inspection offer.

3.10.4 In case sample again fails in the type test then:

a) The quantity supplied/received in stores and lying unused in stores shall stand rejected and shall be lifted back by the supplier.

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 and order shall stand cancelled .

3.11 TYPE TEST :

a) The following tests shall constitute the type tests and shall be carried as per the relevant clauses of IS:731/1971 (second revision). The clause references have been given in brackets against each test.

- a) Visible discharge test (10.2).
- b) Impulse voltage withstand test (10.3).
- c) Wet power frequency voltage withstand test(10.4).
- d) Temperature cycle test (10.6).
- e) Electro mechanical failing load test 10.7).
- f) Twenty four hours mechanical strength test (10.9).
- g) Puncture test (10.10).
- h) Porosity test (10.11).
- i) Galvanizing test (10.12).

b) In addition to above, the following type tests shall be got conducted at CPRI, Bangalore /any other NABL accredited Government lab / Govt. approved Lab where facility for the same is available as per the relevant clauses of IEC standard.

a) Residual Strength Test as per IEC :60797

b) Steep Wave Front test as per IEC: 61211/2004

In case, if it is not possible to conduct the aforesaid additional type test in above manner then the said additional type test may be allowed to arrange by the supplier at their own works or any other manufacturers works where the requisite testing facilities for conducting the above test are available.

3.12 ACCEPTANCE TESTS :

3.12.1 These tests shall be for the purpose of acceptance of the lot. For carrying out acceptance test sampling procedure given in Appendix "C" of IS:731/1971 (second revision) shall be followed.

3.12.2 The insulators selected in accordance with clause 3.11.1 above shall be divided approximately into three parts and subjected to the tests in the order as specified in clause No. 10.1.2.2 of IS:731/1971.

3.12.3 The insulators after having withstood the routine tests shall be subjected to the acceptance tests.

3.12.4 **Additional acceptance test-** Insulation resistance test In addition to acceptance test as per clause no.3.11.2, insulation resistance test shall also be conducted on the samples as per clause No.3.11.1. The procedure for carrying out this test shall be as under:

(a) Clean insulator & dry properly, then meggar the insulator with 2.5 KV/ 5 KV meggar

(b) IR value so measured should not be less than 1000 (one thousand) mega ohms

The testing and criteria for conformity shall be as applicable to galvanizing and puncture test.

3.13. CRITERION OF CONFORMITY :

3.13.1 The criterion of conformity to the requirements of the tests given in 3.11.2 shall be as per clause No.C-2, of Appendix 'C' of IS:731/1971 (second revision).

3.13.2 No part of the lot withdrawn as described in 3.12.1 above shall constitute part of any other test submitted for the first time.

3.14 ROUTINE TESTS :

3.14.1 Routine tests shall be carried out on each insulator & to check requirements which are likely to vary during production as per relevant IS:731/1971 (with latest amendments).

3.15 PACKING :

3.15.1 All insulators shall be packed in suitable crates or boxes with suitable steel bands so as to withstand rough handling and storage at destination. The gross weight of packing shall not exceed 50 Kgs.

3.16 DRAWINGS :

3.16.1 The bidder shall submit detailed drawings showing design and dimensions of insulator, ball pin, socket cap & security pin. The type of the material used for various parts shall be clearly specified on the drawing.

3.17 GUARANTEED TECHNICAL PARTICULARS :

Full guaranteed particulars including dry and wet flashovers, puncture and impulse voltages, corona formation voltages, creepage distances, etc. should be given in the tender as called for in Schedule-V(A) for 11 KV 45 KN T&C Disc Insulators and Schedule-V(B) for 11 KV 45 KN B&S Disc Insulators. Tenders not accompanied by Schedule-V(A)& V(B) duly filled in are likely to be ignored.

3.18 QUANTITY :

Quantity indicated above is provisional. The purchaser reserves the right to increase/decrease the same at the time of placing the order.

3.19 PRICES& PRICE VARIATION :

a) The bidder shall quote the Prices in **BOQ** 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 quoted price shall be variable as per Price Variation formula given in this specification at Schedule-II without any ceiling. The base date of price variation shall be **one month prior to date of tender opening** and shall be governed as per clause No.1.10. of Instructions to bidders. The offers in which prices have not been quoted in prescribed manner are liable to rejection.

c) If the price variation formula is changed, the same shall be applicable for the price variation. During the transit period when both old and new indices are being circulated, then the admissible Price Variation shall be applicable, which is advantageous to Nigam, and the period from which the old indices are discontinued then the P.V. shall be admissible with the new indices.

3.20. DELIVERY SCHEDULE

The bidder is required to quote monthly delivery in Schedule-VIII. The delivery of quoted quantity of should be **commenced after 30 days from the date of receipt of purchase order and shall be completed in 06 (Six) months thereafter at equal monthly installments.** In case of ordered quantity is different than the quoted quantity, then monthly delivery shall be adjusted proportionately. Tenders in which monthly delivery schedule is not indicated shall be ignored.

The tenderers are required to indicate the delivery schedule in the schedule-VIII of specification.

3.21 DELAY IN DELIVERY :-

The **"Delay in Delivery"** shall be governed as per **clause 1.24 of General Condition of Contract**

3.22 TEST CHECKING OF MATERIAL AT STORES

The material received in the stores of the NIGAM shall be subjected to the test checking at stores before final acceptance of the material, the procedure for the same shall be as under :

i) SAMPLING

One sample out of each sub-lot / lot consisting of following quantities or part thereof in case of each type of insulators from each inspected lot received in stores shall be selected from each store for test checking of material and shall be got tested.

11 KV 45 KN Disc insulator "T&C" Type – **1000 Nos.**

11 KV 45 KN Disc insulator "B&S" Type – **1000 Nos**

The sample selection shall be done as soon as the material is received in stores, without calling the representative of supplier. However, testing at CTL or else where as arranged by NIGAM shall be done in the presence of representative of supplier after identification/confirmation by the supplier's representative that sample(s) so selected belong to them.

ii) TESTS

The following tests shall be carried out on the above items :

- a) Visual examination, verification of dimensions, creepage distance etc.
- b) Mechanical failing Load Test
- c) Porosity test
- d) Puncture Test

However, only those tests shall be conducted at CTL for which facility with CTL is available.

In case if the facility for conducting any of the above test(s) is not available at the NIGAM's CTL, the purchaser reserve the right to get such test (s) conducted at any independent NABL Test House.

1. For witnessing of the testing, clear 7 days notice shall be given to the supplier stating date, time & place where the test is to be conducted. The testing shall be started after identification / confirmation of sample by the representative of the supplier that sample selected for testing pertain from the lot supplied by them. In case the supplier does not attend for witnessing the testing, the testing shall be proceeded and completed and action be taken as per the contract.

2. The CTL shall send copies of test reports to the purchaser, consignees and the supplier.

iii) CRITERIA FOR ACCEPTANCE

In case of failure of any of sample (s) in any of the above tests, the material contained in the lot / sub-lot received in store to which the samples belong, shall be rejected. The rejected material shall have to be replaced by the supplier free of cost.

iv) TEST CHARGES :

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

v) PAYMENT :**A) If bidder have submitted valid type test reports with bid:**

The 100% payment shall be released after receipt of successful test reports from CTL.

B) If bidder have not submitted valid type test reports with bid:

- i) The 70% payment shall be released after receipt of successful test reports from CTL 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.

ii)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.

C) The due dates for payment shall be considered from the date of submission of the bills along with receipted challans to Sr. Accounts Officer (Cash & CPC) of Jodhpur Discom.

3.23 PLANT, MACHINERY & TESTING EQUIPMENTS;

3.23.1 The bidder should have required plant,machinery and testing equipment for manufacturing & testing of disc insulators.

3.23.2 The bidders should furnish details of plant, machinery and testing equipment with the bids failing which bids may be ignored.

The bidder should have conveyor belt system at their works for conducting continuous and hundred percent routine test on Disc Insulators The bids of bidder not having such arrangement (infrastructure) may be ignored.

3.24. CHALLENGE TESTING :

The other manufacturer can also request challenge testing for any test based on specification. The challenger would request for testing with testing fee. The challenge test fees are proposed at least three times the cost of testing. This is likely to deter unnecessary challenges. The challenger would have the opportunity to select the sample from the store of Nigam and any such challenge should be made within the guaranty period. The party challenged, challenger and the utility could witness the challenged 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 . If the values are within limit, the product gets confirmed, else not confirmed. If the product is not confirmed, the manufacturer would pay the challenge fee and challenger would get the fee refunded. However, as a redressal system the challenger would be allowed to ask for fresh selection of two more samples from the store of Nigam and 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 sample does not confirm 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.

4.0. GST:-

GST registration number of Jodhpur Discom is 08AAACJ8578R1ZJ.

As GST act has been implemented from 01.07.17, therefore, BOQ has been prepared accordingly with applicability of GST. Further, old tax structure wherever appearing in ITB, GCC, specification may be replaced by GST as per notification.

5.0 ADDITIONAL ORDER

Repeat order for additional quantities upto 50% of original ordered quantities , may be placed by the nigam on the same rates ,terms and conditions given in the contract.

6.0 Every Micro, Small & Medium enterprises of Rajasthan shall be required to submit an affidavit in schedule-X, along with duly filled bid document.

APPENDIX-II

S. NO	PARTICULARS	45 KN DISC INSULATOR T&C TYPE	45 KN DISC INSULATOR B&S TYPE
1	INSULATORS		
	a) Diameter	225 mm	255 mm
	b) Height	145 mm	145 mm
	c) Spacing	----	145 mm
	d) Colour	Brown	Brown
	e) Surface	Glazed	Glazed
	f) Creepage Distance	280 mm	280 mm
	g) Ball Dia	16 mm	16 mm
	h) Tolerance	As per relevant ISS	As per relevant ISS
2	STRING ARRANGEMENT		
	a) Single Tension String for normal tension location		
	i) No of E&M	3	3
	ii) Disc strength	45	45
	b) Double Tension String for normal tension location		
	i) No of E&M	3x2	3x2
	ii) Disc strength	3x45 KN	3x45 KN
	c) Minimum Failing Load	As per relevant ISS	As per relevant ISS
	All Electrical & Mechanical values Conforming to Highest system voltage 36 KV / 132 KV in table -1A of string of IS:731/1971		
3	Power System	33KV 3 Phase 50 Cycle effectively Non earthed	132 KV 3 Phase 50 Cycle effectively earthed
4	Highest System	36 KV(RMS) Vol.	36 KV(RMS) Vol.
5	Visible Discharge	27 KV (RMS)	27 KV (RMS)
6	Wet Power Frequency	75 KV (RMS) withstand test	230 KV (RMS)
7	Impulse Voltage	170 KV (Peak)	170 KV (Peak)
8	Power Frequency	1.3 Times the actual dry Flash over voltage of the unit	
9	Minimum creepage distance of the insulator string for moderately polluted atmosphere	580 MM	580 MM
10	Conductor	Weasel & Rabbit	Racoon & Dog
11	Stranding and wire diameter	Al.30/3.0 + ST 7/3 mm	
12	Approx. overall diameter	21 mm	21 mm
13	Approx. Calculated breaking load	9143.47 Kg	9143.47 Kg
14	Normal Aluminium area	207 sq mm	207 sq mm
15	Max. temperature of conductor carrying current and exposed to sun	67 Deg. C	67 Deg. C

TN-1406

SCHEDULE - 1**SCHEDULE OF REQUIREMENT**

S.No.	Name of Item	Quantity
1	11KV Disc Insulators brown glazed Ball and Socket type of 255 x 145 mm having EMS strength 45 KN, suitable for moderately polluted atmosphere & 33 KV lines	34354
2	11KV Disc Insulators brown glazed Tongue and Clevis type of 255 x 145 mm having EMS Strength 45 KN,	558090

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

SCHEDULE-II

IEEMA/PVC/INSL/2017 Effective from: 1st March,17

PRICE VARIATION CLAUSE FOR INSULATORS

The price quoted/confirmed is based on the cost of raw material and labour cost as on the date of quotation and the same is deemed to be related to the prices of raw material and all India average consumer price index number for industrial workers as specified in the price variation clause given below .In case of any variation in these index numbers, the price payable shall be subject to adjustment up or down in accordance with the following formula:

$$P = \frac{P_o}{100} (12 + 5 \frac{Z_n}{Z_{n_o}} + 22 \frac{F_p}{F_{p_o}} + 27 \frac{M_p}{M_{p_o}} + 10 \frac{B_c}{B_{c_o}} + 7 \frac{W_p}{W_{p_o}} + 17 \frac{W}{W_o})$$

Wherein,

P =Price payable as adjusted in accordance with the above formula.

P_o =Price quoted/confirmed.

Z_n=Price of electrolytic high grade zinc (refer notes).

This price is as applicable on the first working day of the month, ONE month prior to the date of tendering.

F_p =Wholesale price index number for 'Fuel & power' (Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, THREE months prior to the date of tendering.

M_p=Wholesale price index number for 'Manufacture of structural metal products' (Base: 2011-12=100) (Refer notes)

This index number is as applicable for the month, THREE months prior to the date of tendering.

B_c = Price of Ball clay (refer notes)

This price is as applicable on the first working day of the month, ONE month prior to the date of tendering.

W_p =Wholesale price index number for 'Manufacture of wood and of products of wood and Cork' (Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, THREE months prior to the date of Tendering.

W_o = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2001=100).

This index number is as applicable for the month THREE months prior to the date of Tendering.

For example, if date of tendering falls in June 2017, the applicable prices of electrolytic high grade zinc (Z_n) and Ball clay (B_c) to be considered for the month of May 2017 whereas wholesale price index numbers for Fuel & power (F_p), Manufacture of structural metal products (M_p), Manufacture of wood And of products of wood And cork (W_p) and all India average consumer price index number (W_o) to be considered for the month of March 2017.

The above indices are as published by IEEMA vide IEEMA circular reference IEEMA (PVC)/INSLR (R-1)/-/-prevailing as on first working day of the month i.e., one month prior to the date of tendering .

IEEMA/PVC/INSLR/2017 Effective from 1 March 2017

Zn = Price of electrolytic high grade zinc (refer notes).

This price is as applicable on the first working day of the month, TWO month prior to the Date of delivery.

FP = Wholesale price index number for Fuel & power (Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, FOUR months prior to the date of Delivery.

MP = Wholesale price index number for 'Manufacture of structural metal products' (Base: 2011- 12=100) (refer notes)

This index number is as applicable for the month, FOUR months prior to the date of delivery.

BC = price of Ball clay (refer notes).

This price is as applicable on the first working day of the month, TWO month prior to the date of delivery.

WP = Wholesale price index number for 'Manufacture of wood And of products of wood And Cork,(Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, FOUR months prior to the date of delivery.

W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base:2001=100).

This index number is as applicable for the month FOUR months prior to the date of delivery.

For example, if the date of delivery in terms of clause given below falls in December 2017, the applicable prices of electrolytic high grade zinc (zn) and Ball clay (BC) to be considered for the month of October 2017 whereas wholesale price index number for Fuel & power (FP), Manufacture of structural metal products (MP), Manufacture of wood and of products of wood and cork (WP) and all India average consumer price index number (W) to be considered for the month of August 2017.

The "date of delivery" is the date on which the Insulator is notified as being ready for inspection/dispatch (in the absence of such notification, the date of manufacturer's dispatch note is to be considered as the date of delivery) of the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Base date : one month prior to the date of tendering .

Notes:

- (a) All prices of raw materials are exclusive of GST.
- (b) All prices are as on 1st working day of the month.
- (c) The details of the prices considered are as under:
 1. The price of ball clay (in Rs/Kg) is the average price of 'N-1' type or equivalent ball clay as quoted by the suppliers.
 2. The price of Electrolytic high grade zinc (in Rs/MT) is ex -works price quoted by a primary Producer.
 3. The wholesale price index numbers for 'Fuel &power , 'Manufacture of structural metal products', 'Manufacture of wood And of products of wood And Cork" are as published by the office of Economic Advisor, Ministry of commerce & Industry, Govt. of India, New Delhi with base 2011-12=100

Note : As per ITB

- a) The prices quoted shall be variable without any ceiling as per IEEMA price variation formula .
- b) In case IEEMA changes the applicable formula for price variation for any item and issue guidelines for adopting the same during pendency of the contract, the new formula and guidelines shall be become applicable for which no confirmation shall be taken from the supplier.

**SCHEDULE – III****JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking****Prescribed technical specification for supply of****11 KV 45 KN DISC INSULATORS “T&C” & “B&S “TYPE.**

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

S.No.	Technical specification particulars to which material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should	Other if any. confirm
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11 KV 45 KN Disc Insulators “B&S” type “T&C” type

IS:731-1971 (Second Revision), and IS:3188-1980, IS:2486 (Part-I)-1993 (Second Revision), IS:2486 (Part-II)1989 (Second Revision) , IS:2486 (Part-III)1974, IS:2486(Part.-IV)1981 with latest amendments. IEC-60797& IEC-61211/2004

For galvanization of metallic parts

IS:2633/1972(Latest amendments)

The Insulator String shall consist of discs (B&S Type) of dimensions specified in Appendix-I, for use on 3 phase, 50 cycle power system .

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

Name & Designation
with seal of the bidder

SCHEDULE-III A**PRE-QUALIFICATION REQUIREMENT**

ITEM :11 KV 45 KN Disc Insulators “T&C” and “B&S” type

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 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:-**

3.01 The bidder shall furnish valid and authenticated type test certificates from a Govt. approved / Govt. recognized / NABL Accredited laboratory / ILAC i.e. International Laboratory Accredited Laboratory (in case of foreign laboratory) of similar rating and design of tendered material/ equipment. Such type test certificates should not be older than 5 years as on the date of bid opening. For this purpose date of conducting type test will be considered.

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

3.02 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).

3.03 The type test certificates shall be furnished either in original or copy duly attested by notary.

3.04 The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificate with the bid as per above provision. 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.5,00,000/-.(Five Lac Only)**. 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 tests) is/ are older than 5years.

iii) Where Rajasthan / outside Rajasthan firm furnishes requisite type test reports of higher rating material.

The date of conducting type test shall be before the date of opening of Technical Bid. The date of issuing of type Test Bank Guarantee in lieu of non-furnishing of Type Test reports shall be before the date of opening of technical bid & the Type Test BG issued on or after opening of technical bid shall not be accepted

4.0 POOR RECORD OF PERFORMANCE AND DELIVERY :

The bidders who have been black listed in any of the state discom or with whom business relations have been severed in 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.

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) Severement of Business relation:

(a) After having given Show Cause Notice of 30 days, and having established & cogent reasons for Severement 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. Severement 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. Severement 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 severement 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 severement 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.
- V) **The date of conducting type test shall be before the date of opening of Technical Bid. The date of issuing of type Test Bank Guarantee in lieu of non-furnishing of Type Test reports shall be before the date of opening of technical bid & the Type Test BG issued on or after opening of technical bid shall not be accepted.**

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 Premises,
Industrial Area,
Jodhpur -342003.

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 furnish 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, 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 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 thereunder. 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)
Executant

Witness:

- 1.
- 2.

SCHEDULE-IV A**TN-1406****ITEM - 11 KV 45 KN Disc Insulators “T&C” and “B&S” type****Must be filled in by the bidder and attached with Technical Bid**

To,
The Superintending Engineer (MM&C),
Jodhpur Vidyut Vitran Nigam Limited,
Jodhpur.

Dear Sir,

With reference to your invitation to bid against specification No. **JdVVNL/SE (MM&C) /EIIAII/TN-1406**, we agree to supply the following quantity:

S. No.	Particulars of Items	Bid Quantity (Nos.)	Qty. Offered (Nos.)	Justification of quantity offered as per Qualifying Requirement
1.	2.	3.	4.	5.
1.	11 KV 45 KN “B&S “ TYPE DISC INSULATORS	34354		
2	11 KV 45 KN “T&C “ TYPE DISC INSULATORS	558090		

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. **JdVVNL/SE(MM&C)/EIIAII/TN-1406** 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. **JdVVNL/SE(MM&C)/EIIAII/TN-1406** and there are no deviations other than as specified in the Schedule-III, V & VI (A & B).

Yours faithfully,

**Signature of bidder with stamp
Dated**

SCHEDULE – V
TN-1406



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.

TN-1406

SCHEDULE-V-A**GUARANTEED TECHNICAL AND OTHER PARTICULARS OF 11 KV DISC
INSULATORS 45KN (T&C Type) AGAINST TN-1406**

(To be filled in by the tenderer and sent with the tender).

S.No.	Description	45 KN Disc Insulator "T&C" type		
1.	2.	3.	4.	5.

1. Manufacturer's name
and address.

GST No.

2. Place of manufacture.

3. Type of insulator

4. Specification to which
insulator shall conform.

5. Dimension of Insulator :

- a) Outside diameter .
- b) Vertical distace
between centres.
- c) Tolerance

6. Creepage/leakage distance
of each (Min.)

7. Weight of each disc.

8. Dia of cutter pin.

9. Electro Mechanical
strength (KN).

10. Dry power frequency
withstand voltage at
50 C/S.

11. Wet power frequency
withstand voltage at
50 C/S.

12. Dry impulse withstand
voltage of single unit.

- a) Positive wave 1.2/50.
- b) Negative wave 1.2/50.

13. Dry power frequency flash
over voltage of single
unit at 50 C/S.

14. Wet power frequency of flash over voltage of unit at 50 C/S.
15. Dry impulse flash over voltage .
 - a) Positive wave 1.2/50.
 - b) Negative wave 1.2/50.
16. Puncture voltage .
17. Minimum visible discharge voltage
18. Packing details :
 - a) Net weight per unit.
 - b) Contents of each package.
 - c) Measurement of each package.
 - d) Gross weight of each package.
19. Tolerance in dimensions if any.
20. Other information , if any.

(Signature)
Name & Designation
with Seal of the firm.

SCHEDULE-V (B)

**GUARANTEED TECHNICAL AND OTHER PARTICULARS OF 11 KV DISC
INSULATORS 45KN 'B&S' Type AGAINST TN-1406**
(To be filled in by the tenderer and sent with the tender).

--
S. No. Description 45 KN Disc Insulators B&S type

1. 2. 3. 4. 5.

- ---
1. Manufacturer's name and address.
- GST No.
2. Place of manufacture.
3. Type of insulator
4. Specification to which insulator shall conform.
5. Dimension of Insulator :
- a) Outside diameter .
 - b) Vertical distace between centres.
 - c) Tolerance
6. Creepage/leakage distance of each (Min.)
7. Weight of each disc.
8. Dia of cutter pin.
9. Electro Mechanical strength (KN).
10. Dry power frequency withstand voltage at 50 C/S.
11. Wet power frequency withstand voltage at 50 C/S.
12. Dry impulse withstand voltage of single unit.
- a) Positive wave 1.2/50.
 - b) Negative wave 1.2/50.
13. Dry power frequency flash over voltage of single unit at 50 C/S.
14. Wet power frequency of

flash over voltage
of unit at 50 C/S.

15. Dry impulse flash over voltage .
 - a) Positive wave 1.2/50.
 - b) Negative wave 1.2/50.
16. Puncture voltage .
17. Minimum visible discharge voltage
18. Packing details :
 - a) Net weight per unit.
 - b) Contents of each package.
 - c) Measurement of each package.
 - d) Gross weight of each package.
19. Tolerance in dimensions if any.
20. Other information , if any.

(Signature)
Name & Designation
with Seal of the firm

SCHEDULE – VI (A)
TN-1406



JODHPUR VIDYUT VITRAN NIGAM LIMITED
A Govt. of Rajasthan Undertaking
DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION

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

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

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

SCHEDULE – VI (B)
TN-1406



JODHPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE SPECIFICATION

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

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

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

**SCHEDULE – VII
TN-1406****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 in Nos..	Order No. & Date	Name & details of purchasing authority	Date of Completion
1	2	3	4	5	6

If executed partially be mentioned (Qty. in Nos.)	whether still to be executed	Delivery stipulated in order	Remarks to
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-1406**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	Value (Rs)	
1	2	3	4	5	6	7	8	9	10	11

Signature
With Seal of the Bidder

Signature of C.A
Name & Designation
Name :
Address:

Date _____
Place _____

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 (_____)

NOTE- AN UNDERTAKING FOR THE SAME BE FURNISHED AS DETAILED IN ANNEXURE-I

Note:-The CA Certificate should be furnished on the letter head of CA and must be signed by the bidder and C.A. firm. The details i.e. address of C.A. & membership No. shall clearly be mentioned on C.A. certificate. In case C.A. certificate is not signed by the bidder/furnished without membership No. & address of C.A. then same may not be considered for which responsibility rests with the bidder

SCHEDULE-VIII**TN-1406****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.	11 KV 45 KN "B&S " TYPE DISC INSULATORS	After 30 Days from the date of receipt of P.O	In equal monthly installment	06(Six) Months thereafter
2	11 KV 45 KN "T&C " TYPE DISC INSULATORS	After 30 Days from the date of receipt of P.O	In equal monthly installment	06(Six) 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
TN-1406



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 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 along with 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 along with Balance-Sheet for previous two years.
12. Testing facilities available for the manufactured articles in the testing laboratory of works.
13. Whether the Firm is a small/medium/large scale industry.
14. Registration No. with :-
 - i. Small Scale, National/State.
 - ii. DGTD
 - iii. State Industries Department.

(Signature)

Name & Designation
with seal of the bidder.

SCHEDULE – X

(TO BE FURNISHED ON NON-JUDICIAL STAMP WORTH Rs.100/- & DULY NOTARIZED)

FORMAT OF AFFIDAVIT

I _____ S/o _____ Aged _____ Yrs. _____
Residing at _____ Proprietor/Partner/Director of
M/s _____ do hereby solemnly affirm and declare that:

(a) My/Our above noted enterprise M/s _____ has been issued
acknowledgement of Entrepreneurial Memorandum Part II by the District Industries
Centre _____. The acknowledgement No. is _____ dated
_____ and has been issued manufacture of following items:

Name of Items	Production Capacity (Yearly)
(i)	
(ii)	
(iii)	
(iv)	
(v)	

(b) My/Our above noted acknowledgement of Entrepreneurial Memorandum Part-II has
not been cancelled or withdrawn by the Industries Department and that the enterprise is
regularly manufacturing the above items.

(c) My/Our enterprise is having all the requisite plant and machinery and is fully equipped
to manufacture the above noted items.

Place _____

Signature of
Proprietor/Director Authorized Signatory
With Rubber Stamp and date

GENERAL
Amendments in GCC & ITB

- 1) **Wherever EMD and Security Bank Guarantee (SBG), are appearing in the ITB, GCC & other Bidding Documents, same is hereby replaced by BID SECURITY as under:-**

BID SECURITY

Bid security shall be 2% **of the estimated value of subject matter of procurement put to bid.** In case of Small Scale Industries of Rajasthan it shall be 0.5% of the **quantity offered** for supply and in case of sick industries, other than Small Scale Industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the value of bid. Every bidder, if not exempted, participating in the procurement process shall be required to furnish the bid security as specified in the notice inviting bids.

In case SSI unit of Rajasthan quotes the less than the tendered quantity, then they are required to furnish Bid Security @ 0.5% of the value of the quantity offered by them, failing which bid shall be considered non-responsive.

The Bid Security amount (as applicable) to be paid by Demand Draft/Banker's Cheque in favour of SR. AO (CASH & CPC), JDVVNL, Jodhpur (payable at Jodhpur) 342003 **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid or Bank Guarantee, in specified format, of a scheduled bank in favor of Superintending Engineer (MM&C), JDVVNL, Jodhpur, **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, the bidder shall also furnish self attested and duly attested by Notary, the documentary evidence of SSI unit of Rajasthan or of sick unit (as applicable). along with affidavit as per schedule X on non-judicial stamp of Rs. 100/-

The Bank Guarantee against Bid Security be issued by Nationalized / Scheduled Bank. The same may be accepted after confirmation by issuing Bank. If any Bid Security Bank Guarantee is not in proper format / not confirmed by the issuing Bank the same would not be accepted and the bidder would be immediately shorted out from bid process.

The Micro, Small & Medium Scale Industries of Rajasthan and sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self-attested documentary evidence duly attested by Notary to claim the above.

- 2) **Wherever Performance Bank Guarantee (PBG) and Composite Bank Guarantee (CBG) are appearing in the ITB, GCC & other Bidding Documents, same are hereby replaced by PERFORMANCE SECURITY as under:-**

PERFORMANCE SECURITY

- (i) Performance security shall be solicited from all successful bidders except the department's of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in particular procurement or any class of procurement.
- (ii) Performance security from the successful bidder shall be taken **5%** (of the amount of supply order in case of established suppliers)/ **1%** (of the amount of supply order in case of Micro, Small & Medium scale industries of Rajasthan)/**2%**(of the amount of supply order in case of sick industries)/**10%** (of the amount of supply order in case of other suppliers). In case of successful bidder , the amount of bid security may be adjusted in arriving at the amount of the performance security, or refunded if the successful bidder furnishes the full amount of performance security.

3) VENDOR REGISTRATION

The relaxation/exemption given to the registered vendors of the Nigam in respect of EMD/SBG, wherever appearing in the ITB, GCC & other Bidding documents, are hereby WITHDRAWN.

- 4) The indirect taxes i.e. Excise Duty, Service Tax, VAT/CST, Entry Tax etc. mentioned in G.C.C., ITB and other bidding document may now be read as G.S.T.**

APPENDIX-A

Bank Guarantee No. _____.
 Security Amount : _____.
 Issued on dated : _____.
 Valid upto : _____.
 Claim upto / Grace period: _____.

PERFORMA OF BANK GUARANTEE FOR BID SECURITY

(Bank Guarantee in lieu of bid Security on non-judicial Stamp Paper of Rajasthan State of 0.25% of the B.G. value or Rs.25,000/-, whichever is less)

To,
 The Superintending Engineer (MM&C),
 Jodhpur Vidyut Vitaran Nigam Limited,
 Jodhpur.

1. Whereas _____ (name of the Bidder) (hereinafter called “the Bidder”) has submitted its bid dated _____ (date of submission of bid) for _____ (name of contract/ name of the material with Bid no. / TN No. _____) (hereinafter called ‘the Bid’).
2. KNOW ALL PEOPLE by these presents that WE _____ (name and address of branch of Bank) of _____ (name of country), having our registered office at _____ (addresses of bank) (hereinafter called ‘the Bank’), are bound unto _____ (name of Purchaser) (hereinafter called “the Purchaser”) in the sum of Rs. * _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents sealed with the Common Seal of the said Bank this _____ day of _____ 20____.
3. THE CONDITIONS of this obligation are :
 - i. If the bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Form; or
 - ii. If the bidder refuses to accept the correction of error in his Bid; or
 - iii. If the bidder, having been notified of the acceptance of its Bid by the purchaser during the period of bid validity:
 - a. Fails or refuses to execute the Contract Agreement within the time specified in purchase / work order, if required, or
 - b. Fails or refuses to furnish the performance security within the time specified in purchase / work order in accordance with the GCC, or
 - c. Fails to commence supply of goods or services or execute work as per purchase / work order within time specified.
 - iv. If the bidder breaches any provision of the Code of integrity specified in the RTPP Act and Chapter VI of the RTPP Rules.

4. We undertake unconditionally and irrevocably to guarantee as primary obligator and not as surety merely to pay to the purchaser a sum of Rs. _____ (in words Rs. _____) upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or all of the above three conditions specifying the occurred condition or conditions.
5. The decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur shall be final whether breach has been committed on the right to demand the amount of guarantee from us which has accrued to the purchaser.
6. This guarantee shall not cease or determine, if the purchaser grants time or indulgence or vary the terms of the contract with the Contractor or without our consent or knowledge.
7. The guarantee herein contained shall not be affected by any change in the constitution of the Contractor.
8. We _____(Bank Name) 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.
9. All disputes arising under the said guarantee between the Bank and the Nigam or between the Contractor and the Nigam pertaining to the guarantee, shall be subject to the jurisdiction of the Courts in Jodhpur, Rajasthan alone.
10. This guarantee will remain in force up to and including one hundred eighty (180) days after the date of the opening of bids, i.e. upto _____, with a further grace period of Ninety (90) days and any demand in respect thereof should reach the Bank not later than the above date.

Yours faithfully,
Bankers (EXECUTANT)
Signed by the above named Bank in presence of :
(signature with full Name and Address)

Witness :

1. _____.
2. _____.

Attested by Notary Public, First Class Magistrate or directly confirmed by the executing Bank.

* The Bidder should insert the amount of the guarantee in words and figures denominated in the currency of bid.

Note : In case the bid is submitted by a Joint Venture, the Bid Bank guarantee shall be in the name of Lead partner or in the name of joint venture partners submitting the Bid covering all the partners of the joint venture.

ANNEXURE-I

**UNDERTAKING FOR CA CERTIFICATE (TO BE FURNISHED ON NON-JUDICIAL STAMP
WORTH Rs.100/- & DULY NOTARIZED)**

I/WE UNDERTAKE THAT THE CA CERTIFICATE SUBMITTED AS PER THE REQUIREMENT OF PRE-QUALIFICATION REQUIREMENTS, FOR ADJUDGING THE PAST SUPPLIES ,UNDER THE SUBJECT TENDER, TN-_____ , IS CORRECT AND I, UNDERSIGNED WILL BE SOLELY RESPONSIBLE FOR ANY DEVAITION/ DISCREPANCY/ IN-CORRECT INFORMATION , IF EVER NOTICED IN THE CA CERTIFICATE.

FURHER, IN CASE, IF ANY DEVAITION/DISCREPANCY/IN-CORRECT INFORMATION IS NOTICED IN THE CA CERTIFICATE FURNISHED WITH THE BID, AT ANY STAGE DURING PROCESSING/ CURRENCY OF TENDER, DISCOM CAN TAKE THE ACTION AGAINST THE FIRM M/s _____
_____AS PER THE RULES & REGULATIONS.

(SIGNATURE)
NAME & DESIGNATION
WITH SEAL OF THE BIDDER

ANNEXURE-II

Bidders are requested to furnish following details:

1. **Name of Firm :**
2. **Office Address :**
3. **Work's Address :**
4. **Email Address :**
5. **Phone / Mobile No. :**
6. **Fax No. :**
7. **Name of Firm's representative :**
8. **Contact No. of Firm's representative:**