

SCHEDULE-ISCHEDULE OF REQUIREMENT

The quantity to be purchased is as under:

<b>Sr.No.</b>	<b>Item Particular</b>	<b>Quantity</b>
1.	11 KV, 400 Amp. single break 3 phase and Neutral Rostering Switch without earthing blades with tubular moving blade, post insulators and complete with all accessories.	960 Sets

**The quantity indicated above is provisional and the purchaser reserves the right of revising the same at the time of placing the order.**

**SCHEDULE- II (A)**

IEEMA/PVC/INSL/2003

Effective from:1st April,03

**PRICE VARIATION FORMULA FOR ISOLATORS (Hardware Parts)**

The price quoted/confirmed is based on the cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials/ components and All India Average Consumer Price index for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and Index numbers, the prices payment shall be subject to adjustment, up or down, in accordance with the following formula.

$$P = \frac{Po}{100} \left( 25 + 17 \frac{IS}{ISo} + 18 \frac{C}{Co} + 10 \frac{Al}{Alo} + 13 \frac{In}{Ino} + 17 \frac{W}{Wo} \right)$$

Wherein

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

**Po** = Price quoted/confirmed.

**ISo** = **Whole sale price index for ferrous metals** (Base : 2004-05 = 100) (refer notes).

**Co** = Price of electrolytic copper wire bars (refer notes).

**Alo** = Price of bus bar grade aluminium (refer notes).

**Ino** = Price of Phenolic Moulding powder for switchgear and control gear of medium / lower voltage (upto 650 Volts) or price of epoxy resin HT Switchgear (above 650 V) (refer notes).

**Wo** = All India average consumer price index number for industrial workers as published by Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100).

**NOTE:-** The above and indices are as published by IEEMA vide circular reference No.EEMA(PVC)/SWGR --/-- of the month of **March ,2011**

**IS** = Whole sale price index for ferrous metals (Base : 2004-05 = 100) (refer notes).

This index is as applicable on the first week ending Saturday of the month , four months prior to the date of delivery.

**C** = Price of electrolytic copper wire bars (refer notes). This price is as applicable on the first working day of the month, two month prior to the date of delivery.

**Al** = Price of bus bar grade aluminium (refer bites). This price is applicable on the first working day of the month, two months prior to the date of delivery.

**In** = Price of Phenolic Moulding powder for switchgear and control gear of medium / lower voltage (upto 650 Volts) or price of epoxy resin HT Switchgear (above 650 V) (refer notes). This price is as applicable on the first working day of the month, two month prior to the date of delivery.

**W** = All India average consumer price index number for industrial workers as published by Labour Bureau Ministry of Labour, Govt. of India (Base1982 = 100). This index number is as applicable for the month, five months prior to the date of delivery.

**BASE DATE:- 1.03.2011** . The "date of delivery"( i.e. date of readiness of material) is to be considered as per clause no. 1.10 of Section-I ( Instructions to bidders)

**NOTE :** a) All prices of raw materials are exclusive of modvatable excise / CV duty amount and exclusive of any other central ,state or local taxes, octroi etc.

b) All prices are as on first working day of the month.

c) The details of prices are as under :

i) Wholesale Price index number for `Iron & Steel' as published by the office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi, with base :1993-94=100. This wholesale price index is being published weekly on provisional basis. However, the same get finalized after eight weeks and are normally available after two months. Therefore, we are considering in our calculations this final indices published by Economic Advisor for the first Saturday of the Month, two month prior to the date of which the price of other raw materials such as C, Al and In are published for the corresponding month.

ii) The prices for electrolytic copper wire bars (in Rs./MT) is ex-godown price as quoted by the primary producer of copper.

iii) The prices of bus bar grade aluminum (in Rs./MT) is the average of ex-works price as quoted by the two primary producers for the bus bar size 152.4x6.35 mm flat approximately, of grade equivalent to E91E as per IS-5082-1981 (or the latest).

iv) The price of insulating material (in Rs./Kg) is the average price of phenolic moulding power quoted by three manufacturers (for switchgear and control gear of medium / lower voltage upto 650 volts) or is the price of epoxy resin quoted by a resin manufacturer for their grade CT 5900 or its nearest equivalent (for HT switchgear above 650 volts).

**SCHEDULE- II (B)**

IEEMA/PVC/INSL/2003

Effective from: 1st April,03

**PRICE VARIATION CLAUSE FOR POST INSULATORS (Of Isolator)**

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

$$P = \frac{P_o}{100} \left( 15+5 \frac{Zn}{Zno} + 53 \frac{IN-INSLR}{Ino\_INSLR} + 27 \frac{W}{Wo} \right)$$

Wherein

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

**Po** = Price quoted/confirmed.

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

**Ino-INSLR** = Index number for insulators based on relative prices and weightage (as given in brackets) of wholesale price index for fuel, power, light & lubricants (28), whole sale price index for basic metals, alloys & metal products (15), wholesale price index for wood & wood products(6) and Ball clay (4), calculated considering their values as on 1st January, 2003 as base equal to 100 (Refer Notes).

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

**NOTE:-** The above and indices are as published by IEEMA vide circular reference No. IEEMA/(PVC) INSLR --/-- of the month of March,2011

**Zn** = Price for electrolytic high grade zinc (refer notes) . This price is as applicable on the first working day of the month , two months prior to the date of delivery.

**IN - INSLR** = Index number for insulators based on relative prices and weightage (as given in brackets) of whole-sale price index

for fuel power, light and lubricants (28) wholesale price index for basic metals, alloys & metal products (15), wholesale price index for ball clay (4), wholesale price index for wood and wood products (6), calculated considering their values as on 1st January 2003 as base equal to 100 (Refer Notes). This index number is as applicable on the first working day of the month, two months prior to the date of delivery.

**W** = All India average consumer price index number for industrial workers (base 2001 = 100), as published by Labour Bureau, Ministry of Labour, Govt. of India. This index number is as applicable on the first working day of the month, four months prior to the date of delivery.

### **BASE DATE:- 1.03.2011**

The "date of delivery" (i.e. date of readiness of material) is to be considered as per clause no. 1.10 of Section-I ( Instructions to bidders)

**NOTES :** a) All prices of raw material considered for arriving at the index number for insulators are exclusive of Modvatable excise duty and exclusive of any other central, state or local taxes, octroi etc.

b) All prices as on 1st working day of calendar month.

c) The details of the prices considered are as under :

1) The prices of electrolytic high grade Zn (in Rs./MT) is ex-works price as quoted by primary producer of Zn.

2) The prices of ball clay (in Rs./Kg) is the average price of "N-1" type ball clay as quoted by the two manufacturer.

3) The wholesale price index for fuel, power, light & lubricants, basic metals, alloys and metal products and wood and wood products are as published by the office of the Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 1993-94=100. These wholesale price indices are being published weekly on provisional basis. However, the same get finalized after eight weeks and are normally available after two months. Therefore, we are considering in our calculations these final indices published by Economical Advisor for the Saturday of the Month, two month prior to the date of which the price of ball clay and Zn is considered. For example for calculating index number for insulators on 1st working day of month of Oct., the basic price of Zn and ball clay are to be considered as on 1st working day of Oct., and the wholesale price indices for fuel, power, light and lubricant, basic metal, alloy and metal products and wood and wood products are to be considered as published by economic adviser for the first week ending Saturday of the month of August.

## Schedule – III



## JAIPUR VIDYUT VITRAN NIGAM LIMITED

**A Govt. of Rajasthan Undertaking  
Prescribed technical specification for supply of**

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

The design/ manufacture and testing of various isolator parts shall comply with the latest issue of the following standards, except the value(s) wherever specified herein shall be considered relevant:

1.	IS: 9921 (Part-I to V) with latest amendments if any.	Specification for A.C. Disconnectors (Isolators) and earthing switches for voltages above 1000 V.
2.	IS: 5561	For power connectors.
3.	IS: 2629/1985	Recommended practice for hot dip galvanizing of iron and steel.
4.	IS: 2633/1966	Method for testing uniformity of coating on zinc coated articles.
5.	IS: 1161/1979	Specification for GI pipe.
6.	IS: 4736/1968	Galvanization of material.
7.	IS:808	Specification for channels.
8.	IS: 2544/1973 & IS:5350 (Part III/1971) with latest amendment, if any.	Specification & testing of Post Insulators.

Equipment material conforming to other internationally accepted standards, which ensure equal or higher quality than the standard mentioned above, would be acceptable. In case the bidders wish to offer equipment conforming to other standards, they shall furnish an English translation of the relevant standards.

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

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

**(Signature)**

Name & Designation  
with seal of the bidder.

**SCHEDULE-III (A)****TN-4334****ITEM : 11 KV Rostering Switch with Post Insulators .****PRE-QUALIFICATION REQUIREMENT**

The bidder should fulfill following qualification requirements for successful participating in the bid 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 manufacturer of offered item. The offers from authorized dealer/ sole selling agent/sole distributor shall not be entertained.

b) Old / new Suppliers:- Any bidder having their works located within or outside the state of Rajasthan has albeit participated for the first time in particular Discom & meeting minimum qualification requirement ( whether Raj. Or outside Rajasthan) has supplied the bided material / higher rating in other utility shall be treated as an old Supplier. Rajasthan based firms not meeting minimum quantity supplied criterion but having manufacturing and adequate testing facility and technical know-how shall be considered as new firms and would be eligible for trial order only.

**2.0 Past supply and performance criteria:**

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

**2.01) PAST SUPPLY**

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

2.01.2) The bidder should have designed, manufactured/ fabricated, tested and supplied to utility/ Discoms/ Govt. Departments at least 2xQQ/ (QQ being the quoted quantity in Kms.) of similar item / higher rating of tendered material / equipment in last three financial years from the date of opening of technical- commercial bid. **Material supplied under Turnkey Project shall be considered for qualifying requirement if bidder either furnishes a certificate of the Discoms / Utility that same material / equipment has been supplied to them or furnishes proof of supply i.e. receipted challans of the material / equipment supplied to Discoms / Utility.**

Note: Requirement of quantity manufactured, minimum quantity to be offered and amount of Bank guarantee to be furnished in absence of least certificate shall be reduced to 25% for Rajasthan based units.

2.01.3) In support of fulfillment of past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant in the prescribed proforma (**schedule- VIII A**) only. This prescribed proforma should be either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the prescribed format C.A. certificate. The certificate should have membership number with the name & address of then chartered accountant. Certificate should clearly indicate the quantity supplied, period of supply, voltage class/ accuracy class of material etc. in the format prescribed. Any deviation to the format or information diverted format will not be considered and rejected.

### **3. PERFORMANCE CRITERIA**

(i) If a bidder could supply upto 50% of ordered quantity in previous bid upto date of opening of subsequent bid and scheduled delivery period expired, the bid of such bidder will not be opened in the Discom for that item.

(ii) However, if the supplies have been completed for a quantity more than 50% but not completed upto date of opening of subsequent bid and scheduled delivery period expired, then quantity equal to the quantity pending in previous bid for that item shall be reduced from the subsequent bid quantity to be allocated to the bidder.

### **4. TYPE TEST CRITERIA**

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

b) 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.

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

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

e) The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificates with the bid as per above provision.

**f) However, in the following cases the Bidder is not in a position to furnish Type Test Certificate as mentioned above, 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 Rs. 1,50,000/- (One Lac fifty Thousand 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 test(s) is/ are older than 3 years.**
- iii) Where Rajasthan/out side Rajasthan firm furnishes requisite type test report of higher rating material.**

## **5. POOR RECORD OF PERFORMANCE AND DELIVERY**

The bidders who have been black listed or with whom business relations have been severed in any of the State 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 prices and terms and conditions and 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.
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 relation for a period of two 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.

## **6. BLACK LISTING**

Bids of the firms black listed shall not be opened. Bidders are liable for black listing for five years in any of the following circumstances:-

(i) There are sufficient and strong reasons to believe that the suppliers or his employee has been guilty of malpractices such as bribery, corruption , fraud, vitiating fair under process including substitution of or interpolation in bids , pilfering or unauthorized use or disposal of Nigam's materials issued for specific works etc.

(ii) The suppliers continuously refuses to pay Nigam dues after registered notice even after lapse of six months without showing adequate reasons and where the registering authority is satisfied that no reasonable dispute attracting reference to settlement committee or court of law exists for the supplier's action.

(iii) Where a supplier or his partner or his representative has been convicted by a court of law for offences involving moral turpitude in relation to the business dealings or where security consideration including suspected disloyalty to the Nigam so warrant.

(iv) if a registered supplier , being non tenderer for supply but still submits applications giving after receipt / opening of bids received after due process.

**Note-I If a supplier after having bided for a work / supply or after negotiations acceptance of order gives applications voluntarily vitiating the fair bidding process , it shall also tantamount to malpractice.**

**Note-II Severment once done will continue for the notified period of debarment even if the dues are deposited prior to the expiry of such severment period.**

**However , the relations be deemed to have been restored after expiry of severment period mentioned in the order but the bid of such bidder will not be opened in that discom where severment was done if the recoverable amount has not been deposited by the firm i.e. severment done by one Discom for non supply and corresponding recovery will not be effective in other Discom after expiry of notified period but the bid of such bidder will not be opened in that particular Discom if the firm has not deposited amount recoverable.**

#### **APPEALS AND APPLICATIONS :-**

Appeal against the order of blacklisting, debarment and severment can be filed before BOD. The BOD may reduce or wave the penalty if sufficient reasons / supporting documents are furnished by supplier.

#### **7. GENERAL CONDITIONS**

1) 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 Specification 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 failing which the bid will summarily rejected.

IV) The bidder should possess adequate testing facilities for carrying out routine & acceptance test of items as per relevant standard(s) at their works. The bidder shall furnish documentary evidence in support for conducting routine & acceptance test.

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

( On Rajasthan Non-Judicial Stamp Paper worth Rs.100/-)

To,

The Superintending Engineer (Proc),  
Jaipur Vidyut Vitran Nigam Limited,  
Old Powe House Premises,  
Near Ram Mandir, Banipark,  
Jaipur.

Dear Sir,

Whereas Jaipur Vidyut Vitran Nigam Limited , Jaipur ( 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 (Proc), Jaipur Vidyut Vitran Nigam Limited, Jaipur 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 (Proc), Jaipur 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 JAIPUR in Rajasthan.

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

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.



## JAIPUR VIDYUT VITRAN NIGAM LIMITED

### A Govt. of Rajasthan Undertaking SCHEDULE OF PRICES

(Must be filled by the bidder and returned with the bid)

The Superintending Engineer (Proc. /MM)

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

S. No.	Particulars of Material	Quantity offered	Unit Ex-works Price (in Rs.)	Excise duty (Per Unit)		Cess on Excise Duty (Per Unit)		CST/VAT (Per Unit)		Freight (Per Unit) (In Rs.)	Insurance (Per Unit) (In Rs.)	Total Price In Rs. (Per Unit) Col. No. (4+6+8+10+11+12)	Entry Tax @ _____ % on Col. 13 (In Rs.)	All adjusted unit F.O.R. Destination Price including Entry Tax Col. No.13+14	Total Contract Value (In Rs.)
				Rate	Amt.	Rate	Amt.	Rate	Amt.						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.

#### Notes:-

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

**Signature of bidder with rubber stamp**

TN-4334

ITEM- 11KV Rostering Switch with Post Insulators

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

To,

The Superintending Engineer (Proc),  
Jaipur Vidyut Vitran Nigam Limited,  
Jaipur.

Dear Sir,

With reference to your invitation to bid against specification No.JPD/SE/Proc/TN-4241,  
we agree to supply the following quantity :

S. No.	Particulars of Items	Bided Quantity	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
1	11 KV Rostering Switch with Post Insulators	<b>960</b> sets			

- The offer is valid for a period of 120 days after the date of opening of this bid.
- The prices are variable as per PV Formula given at Schedule-II
- It is noted that the quantity as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
- The delivery shall strictly be in accordance with our delivery schedule as given in Schedule-VIII of this specification. In case we fail to deliver the materials as indicated in the clause No.1.23 of GCC (Section-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.JPD/SE/Proc/ TN-4334 and as per relevant ISS in all respect.
- We conform that we agree to all the terms & conditions as well as the technical stipulation of your specification No.JPD/SE/Proc/TN-4334 and there are no deviations other than as specified in the Schedule-VI (A & B).

**Yours faithfully,**

**Signature of bider with stamp  
Dated.**

## SCHEDULE-V

**GUARANTEED TECHNICAL PARTICULARS OF 11 KV 400 AMPS THREE PHASE  
& NEUTRAL ROSTERING SWITCH(ISOLATOR), OUTDOOR SINGLE BREAK  
W/O EARTH BLADE WITH POST INSULATORS ASSEMBLED AGAINST TN-4334**

Sr.No	Particulars	11 KV Isolator
<b>A) RATINGS</b>		
1)	Name of Manufacturer & Address	
2)	Standard according to which the isolator are manufactured	
3)	<b>PARTICULARS OF SYSTEM</b>	
i)	Nominal system voltage	
ii)	Highest system voltage	
iii)	Frequency	
iv)	Number of phases	
v)	Rated Current	
4)	<b>SERVICE CONDITIONS</b>	
5)	<b>Lightning impulse withstand voltage</b>	
i)	To earth & between poles	
ii)	Across the isolating distance	
4)	<b>One minute P.F. withstand voltage</b>	
i)	To earth & between poles	
ii)	Across the isolating distance	
iii)	Rated short time withstand current for one second	
iv)	Rated peak withstand current	
<b>B) SPECIFIC TECHNICAL REQUIREMENT</b>		
1.	Phase separation (minimum)	
2.	Minimum centre to centre distance between two adjacent poles of same phase.	
3.	Size of base channel on which isolators are to be mounted.	
4.	Size of vertical operating pipe (Down pipe) i) Length ii)Nominal bore	
5.	Minimum length of operating handle.	
6.	Nominal bore of phase coupling pipe.	
7	Minimum size of terminal pad (Projected portion)	
8	No. of fingers in a fixed contact.	
9	Min. cross sectional area of each finger.	

10	Diameter of arcing horn (Rod).	
11	No. and size of bolts to be provided for fixing terminal connectors with terminal pad.	
12	Size of flexible earthing connector: i) Minimum cross sectional area. ii) Minimum Length.	
13	Minimum No. of guides to be provided for down pipe.	
14	Size of ACSR conductor for which electric power connectors shall be suitable.	
15	Top and bottom pitch circle diameter of the post insulator (technical specification as per clause No. 7.3 for which isolator hardware shall be suitable.	
<b>C) TECHNICAL REQUIREMENT OF POST INSULATORS:</b>		
1.	Highest system voltage	
2.	Visible discharge test	
3.	Dry one minute power frequency test voltage	
4.	Wet one minute power frequency test voltage	
5.	Power frequency puncture withstand	
6.	Impulse voltage withstand test	
<b>D ) DIMENSIONAL CHARACTERISTICS OF POST INSULATOR:</b>		
1.	Nominal system voltage	
2.	No. of units per stack	
3.	Total height of	
4.	Diameter of insulating parts (max)	
5.	Minimum creepage distance of each unit	
6.	Top and bottom fitting pitch circle diameter	
7.	Centilever strength	

**SCHEDULE -V (A)****BILL OF MATERIALS FOR ROSTER SWITCH TO CONVERT THREE PHASE TO SINGLE PHASE SUPPLY**

Sr. No.	Description	Materials	Qty. per Set	Remarks
1	Galvanised BASE CHANNEL	M.S. CHANNEL	4	75X40X550 mm LONG
2	GALVANISED BASE CHANNEL (SMALL)	M.S. CHANNEL	1	75X40X150 mm LONG
3	ISOLATOR MOUNTING CHANNEL	M.S. CHANNEL	2	75X40X2500 mm LONG
4	POST INSULATOR	PORCELAIN	9	
5	FIXED CONTACT (4 FINGERS)	COPPER	6	19X2.9 mm THICK (55 Sq.mm)
6	MOVING CONTACT	COPPER	4	25.0 O.D. x 2.24 mm THICK x 400 mm LONG
7	TERMINAL PAD	COPPER	10	50X4.5 mm THICK
8	CONNECTING FLAT	COPPER	1	50X4 mm THICK
9	COPPER FLEXIBLE STRIP	FLX. COPPER	4	30X3.5 mm THICK
10	TERMINAL CONNECTOR WITH 1 mm THICK BIMETTALIC STRIP	AL.ALLOY	8	SUITABLE FOR RABBIT / RACCOON CONDUCTOR
11	SPRING	S. STEEL	24	MADE OF 16 GAUGE WIRE
12	T-INSULATION AT SPRING	TAFLOX	48	
13	GALVANISED ARCHING HORN	M.S. Rod	5 Sets	8 mm DIA ROD
14	GALVANISED FIXED CONTACT MOUNTING	M.S.	4	-
15	GALVANISED MOVING CONTACT MOUNTING	M.S. ANGLE	4	35X35X200 mm LONG
16	BEARING ASSEMBLY	M.S./ ALUMINIUM	4	TAPER ROLLAR BRG. AT TOP AND BALL BRG. AT BOTTOM
17	COUPLER PIPE	G.I.	1	G.I. PIPE 20 mm N.B.
18	OPERATING PIPE (DOWN PIPE)	G.I.	3	G.I. PIPE 25 mm N.B. x 3.5 mtr. L.G.
19	OPERATING HANDLE	G.I.	3	G.I. PIPE 25 mm N.B. x 500 mm LG.
20	GALVANISED FOURTH BEARING ASSEMBLY	M.S.	1	WITH TAPPER ROLLER/ THRUST BEARING
21	GALVANISED FOURTH BEARING ASSEMBLY MOUNTING CHANNEL	M.S. CHANNEL	1	75X40 mm
22	GALVANISED GUIDE	M.S.	3	-
23	GALVANISED GUIDE CUM LOCKING PLATE	M.S.	3	WITH TWO HOLES 0¼" AT A 70 mm C/C

**Schedule – V B****JAIPUR 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.....

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S.No.	Particulars of technical & other performance data guaranteed.
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Certified that we agree to all the aforesaid technical particulars and other performance data except following :-

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S.No.	Particulars of technical & other Performance data	Reasons for deviations/departure.
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**(Signature)**

Name & Designation  
with seal of the bidder

**Schedule – VI (A)****JAIPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking****DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION**

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

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

**(Signature)**

Name & Designation  
with seal of the bidder.

**Schedule – VI (B)****JAIPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking  
DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE  
SPECIFICATION**

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

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

**(Signature)**

Name & Designation  
with seal of the bidder.



## JAIPUR 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 bid have been previously supplied by him. A list shall be given of such orders executed by him together with information regarding the names of purchasing organizations, quantities supplied and when the supplies were effected. This list should be in form given below:-

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

If executed partially to be mentioned (Qty. in M.T.)	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 JVVNL, Jaipur other State Electricity Boards and other Departments /Organisations.

**(Signature)**

Name & Designation  
with seal of the bidder.

## Schedule – VIII



## JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

## DELIVERY SCHEDULE

PART-A

The delivery schedule of the material by the Purchase Officer is as mentioned hereunder:-

S.No.	Particulars	Commencement of Material	Rate of supply period per Month.	Period for completion Including commencement
1.	11 KV ROSTERING SWITCH	60 DAYS	EQUAL MONTHLY	EIGHT MONTH

PART-B

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

S.No.	Particulars of Material	Commencement period per Month.	Rate of supply per Month	Period for completion of delivery of entire material
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- Note:** 1. During the commencement period the process of model assembly and submission of B.O.M. for approval shall be got completed.  
2. During the commencement period the contractual formalities shall be got completed.

(Signature)

Name & Designation  
with seal of the bidder.



## JAIPUR VIDYUT VITRAN NIGAM LIMITED

### A Govt. of Rajasthan Undertaking

List of Equipments and Technical Hands Available with the Firm

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

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

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

**(Signature)**

Name & Designation  
with seal of the bidder.

**GENERAL PARTICULARS ABOUT THE BID IN BRIEF**

**JAIPUR VIDYUT VITRAN NIGAM LIMITED  
( PROCUREMENT CIRCLE)  
NEAR RAM MANDIR , BANI-PARK, JAIPUR-302006**

TELEPHONE: - 0141 2208098

TELE FAX: - 0141-2208098

**SPECIFICATION FOR SUPPLY OF 11 KV ROSTERING SWITCH( ISOLATOR)  
WITH 12 KV POST INSULATORS (ASSEMBLED)**

<b>Last Date of receipt of bids</b>	<b>25.04.2011 upto 2:30 PM</b>
<b>Date of opening of bids</b>	<b>25.04.2011 at 3:00 PM</b>
<b>Cost of Specification</b>	<b>Rs. 2500.00 ( Rs. Two Thousand Five Hundred only)</b>
<b>Validity</b>	<b>120 days from the next date of opening of bid.</b>
<b>Earnest Money</b>	<b>Rs. 2,00,000.00 (Rs. One Lac only) / Exemption Certificate / Vendor Registration Of Class "C" Category.</b>
<b>Tendered Quantity</b>	<b>960 Sets.</b>

**NOTE :-**

1. Furnishing of Proof of deposition of cost of bid documents, Earnest Money/ exemption certificate as per Clause 1.03 & 1.16 of Section-I( Instruction to bidder) along with downloaded bid documents is essential otherwise the "BID OFFER" will not be opened. However the bidders who get themselves registered with JVVNL as per clause no. 1.5.3 of section ( General Condition of Contract) before submitting of bid documents against this bid enquiry for supply of quoted item(s) under appropriate category are not required to furnish Earnest Money Deposit. They shall furnish the proof of such valid registration with their bid .Cost of bid document shall be furnished in the form of Crossed Bank Draft / Bankers Cheque payable in the name o "A.O. (MM) , JVVNL, JAIPUR ". EMD if required shall be furnished in accordance with Clause No. 1.03.1 of Section – I ( Instructions to Bidders)

2. The Rajasthan/Central Govt. undertakings/Corporation/Company are exempted from furnishing of Earnest money subject to furnishing of such certificate / documentary evidence in support of their being Govt.(Central/State) undertaking.

3. Bidder shall quote both F.O.R. destination and Ex-works price , including packing and forwarding charges. Freight, and insurance charge shall also be quoted separately as per schedule of requirement and price (Schedule-IV) otherwise their offer shall likely be ignored. The price quoted should be variable without any ceiling as per price variation formula as mentioned in schedule-II

4. Receipt of Earnest Money Deposit or valid registration certificate or certificate that the tenderer is a Government undertaking/ Corporation / Company shall necessarily be accompanied with tender otherwise the tender shall be rejected.

5. The tender offer shall be furnished in **TWO PART** in the following manner :-

- i) **First envelope containing proof of deposition of cost of Bid documents & EMD.** Name of item, bid no., time of bid submission, due date for opening of bid and the word ‘Envelope–I & Cost of bid documents and Earnest Money / Valid Registration Certificate under relevant class / A certificate of being a Rajasthan / Central Govt. undertaking’ should be clearly written on the front side of the envelope.
- ii) **Second envelope for techno-commercial bid.** Name of item, bid no., time of bid submission, due date for opening of bid and the word ‘Envelope – II & Techno-Commercial Bid’ should be clearly written on the front side of the envelope.
- iii) **Third envelope for price bid.** Name of item, bid no., time of bid submission, due date for opening of bid and the word ‘Envelope – III & Price Bid’ should be clearly written on the front side of the envelope.

*Note :* Envelope III containing price bid will be kept in the safe custody of the concerned engineer / officer. It will be opened at a later date in respect of those bidders whose offers are found / adjudged technically and commercially acceptable. The date of opening of “Price Bid” shall be intimated to successful bidders in due course of time. In case of deviation from the stipulated clauses of bid specifications, price bid of the bidder will not be opened.

- iv) **Fourth envelope containing above three envelopes.** Name of item, bid no., time of bid submission and due date for opening of bid should be clearly written on the front side of the envelope. (All the above envelopes shall be duly sealed individually).

The bidder shall ensure that their tenders are furnished /submitted strictly in the manner detailed in the specification.

The bidder shall ensure that their tenders are furnished /submitted strictly in the manner detailed in the specification.

7. The tenders not accompanied with qualification requirement as per schedule-III(B), technical requirement indicated in the specification and other requirement given

here under will be considered as incomplete offer and sufficient grounds for offer to be passed over:

- i) Capacity, capability and competency proofing documents.
    - a) Capacity/orders of similar and higher rating of tendered equipment booked as on date of tendering with type and rating and construction details of equipment for which order received be indicated.
    - b) Copy of purchase orders of Erstwhile RSEB or JVVNL/AVVNL/JdVVNL for similar or higher rating equipment latest executed.
  - ii) Year wise past experience for last 5 years of similar or higher rating of tendered equipment.
  - iii) The details of testing facilities available at the works and copies of latest type test certificates, carried out on similar item/equipment.
  - iv) Quality assurance plan.
  - v) Complete guaranteed technical particulars, out lines and general arrangement drawings alongwith Bill of Material.
8. Technical deviation including GTP and commercial deviations including delivery if any shall invariably be mentioned in Schedule-VI(A) "departure from specification" attached with this specification. Mentioning of such deviations elsewhere in the offer will not be considered as deviations. The printed terms and conditions of sales and others if any attached with the tender will not be considered.
9. Tenders without schedule I to IX shall be rejected.
10. Tenders shall be furnished in single copy.
11. Tenderers shall indicate in their bid the name and complete address of excise authorities under whose jurisdiction their works / office falls.
12. Any cutting/overwriting in the figures of the tendered documents should also be clarified/ indicated in the words duly signed.
13. JVVNL has the right to reject any offer on the basis of track record of poor performance in execution of previous order / equipment supplied /after sales service while evaluating the technical bid (Part-I).
14. JVVNL reserves the right to accept minor deviations in standard terms and conditions and also in technical and constructional features as specified in the technical specification (Schedule-III).
15. Deviation of any kind shall not be quoted in price bid, if found quoted, the same shall be ignored.
16. The purchaser will respond in writing to any request for clarification on tender documents which it receives no later than 15 days prior to deadline for submission of tender, after which no correspondence shall be entertained.

17. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of JVVNL.

- (a) Suitable accommodation.
- (b) Local conveyance between arrival point, place of stay, works and departure point.
- (c) The supplier shall assist in arranging return ticket and reservation on the request of the inspecting officer for which the payment shall be made by the inspecting officer. In case of joint inspection, single or shared double room accommodation shall be provided.