



**JODHPUR VIDYUT VITARAN NIGAM LIMITED**  
**OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)**  
**NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR –342 003**  
**Corporate Identity Number (CIN)-U40109RJ2000SGC016483 GST No. 08AAACJ8578R1ZJ**

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Mail Address: [semmejdvnln@gmail.com](mailto:semmejdvnln@gmail.com)**SPECIFICATION NO. JDVVNL/SE (MM&C)/TN-1564**

Tenders are hereby invited in e-tender system for purchase of 11 KV 400 A Rostering Switch with Post Insulators without Earth Blade are to be submitted online in electronic format on website <http://www.eproc.rajasthan.gov.in>. The details are as under-

S.No.	Name of Item	Quantity (Approx)
<b>1.</b>	11 KV, 400 Amp. single break 3 phase and Neutral Rostering Switch without earthing blades with tubular moving blade, 12 KV post insulators and complete with all accessories.	<b>400 sets</b>

A.	NIT No.	TN-1564
B.	<b>Last date for receipt of tenders</b>	<b>21.08.2019 upto 12:00 PM</b>
C.	<b>Date &amp; time of tender opening</b>	<b>21.08.2019 at 3:00 PM</b>
D.	Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME Of Rajasthan: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
E.	Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
F.	Bid security to be deposited	General Bidder : Rs. 132580.00 Sick Unit of Rajasthan: Rs. 66290.00 SSI unit of Rajasthan: Rs. 33145.00 *
G.	Validity	120 days from the next date of opening of techno-commercial bid.

\*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 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.	Last Date of downloading of tender specifications	Up to 20.08.2019 (04:00 PM)	<a href="http://www.jdvvnln.com">www.jdvvnln.com</a> & <a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
2.	Last Date of Deposit of cost of Tender Specifications, Processing fee & Bid Security	Up to 20.08.2019 (4:00 PM)	Office of Sr. A.O (Cash & CPC), JdVVNL , New Power House, Industrial Area, Jodhpur
3.	Last Date & time of submission of electronic bid	Up to 21.08.2019 (12:00 PM)	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
4.	Opening of Technical Bid	21.08.2019 (03:00 PM)	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>

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1. Tender documents will be made available on e-Tendering portal [www.eproc.rajasthan.gov.in](http://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](http://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/-** (Rs. 1475/- for MSME)(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 favours 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 be deposited to the Sr. Accounts Officer

(MM&C), JdVVNL, New Power House, Industrial Area, Jodhpur-342003 **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 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.

**SECTION-III****TECHNICAL SPECIFICATION FOR 11 KV 400 AMPS OUTDOOR SINGLE BREAK 3 PHASE & NEUTRAL ROSTERING SWITCH (ISOLATOR) WITH POST INSULATOR & ALL ACCESSORIES AGAINST TN-1564****1.0 GENERAL DESCRIPTION:**

To provide single phase domestic and non domestic supply to rural house holds round the clock, single phase distribution transformers are being installed in Jodhpur Discom. For this purpose 11 KV Single break Roster group operating switch (RGOS) has been designed.

As indicated in the enclosed drawing the Roster Switch is required for the following function:

- i) Stage-1- For 3 phase supply (normal operation)
- ii) Stage-2- For single phase supply (Rostering)
- iii) Stage-3-All three phases and neutral open (For line clear and maintenance purpose)

The suitable interlocking is to be provided among above three operation to prevent any malfunctioning in the field.

**2.0 SCOPE:**

This specification covers the design, manufacture, testing at manufacturer's works before dispatch, supply and delivery of 11 KV, 400 Amp. Outdoor single break Rostering (three phase to single phase) switches (Isolators) without earth blade and with post insulator, base mounting channel & all accessories, required for installation at various 33/ 11 KV sub station in area of Jodhpur Vidyut Vitran Nigam Limited. The Rostering Switch shall be suitable for installation on system maximum fault level of 16 KA with neutral effectively grounded.

It is not the intent to specify completely herein all details of the design and construction of equipments. However, the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous operation up to the supplier's guarantee acceptable to the purchaser, who will interpret in a manner the meaning of drawings and specifications and shall have the power to reject material which in his judgment is not in accordance herewith. The equipment offered shall be complete with all components necessary for its effective and trouble free operation along with associated equipments, interlocks, protection schemes etc. Such components shall be deemed to be within the scope of supply, irrespective of whether those are specifically brought out in this specification and/or the commercial order or not . All similar parts particularly movable ones shall be interchangeable.

**PART-A TECHNICAL SPECIFICATION FOR 11 KV, 400 Amp. OUTDOOR ROSTER SWITCH WITHOUT EARTH BLADE (ROSTER SWITCH & ACCESSORIES):**

**3.0 GENERAL TECHNICAL REQUIREMENT:**

- a) The Rostering switch / Isolator (Hardware Part ) shall be constructed out of the best quality of material suitable for weather conditions prevailing in Rajasthan. The workmanship shall be of the highest grade and the entire manufacture shall be in accordance with the modern Engineering practices. All ferrous parts shall be given an anticorrosive finish and shall be hot dip galvanized. The other parts shall be substantially non-corrosive. The bearings in the current part shall be shunted by flexible copper connectors of adequate cross section and the bearing housings shall be completely weather proof with arrangements to facilitate the lubrication of the bearings.
- b) Isolators shall be of triple pole and separate neutral gang operated, single break, two post with one post rotating, banging type suitable for outdoor horizontal mounting. The switch Isolators shall be manually operated. The operating handle shall have arrangements for locking isolators in 'ON' and 'OFF' positions. For reasons of safety, the isolator should be so designed that no dangerous leakage current can pass from the terminals of one side to any terminal of the other side of the isolator. Pad Lock shall not be included in the scope of supply.
- c) The frame of each isolator shall be provided with reliable earthing terminal for each phase for connections to an earthing conductor having a clamping bolt/ screw of not less than 12 mm diameter. The terminal shall be marked with 'Earth' symbol.
- d) The isolators shall be provided with arcing horns of liberally rated fixed type with make before and break after arrangement. The arcing horn shall be made of MS Rod (hot dip galvanized) of not less than 8mm dia.
- e) All similar materials and movable parts of similar equipment shall be interchangeable with each other.
- f) The vertical operating pipe and phase coupling pipe shall be of galvanized mild steel tube (medium class) as per IS-1161/1979.
- g) Suitable arrangement shall be provided to lock the operating handle(s) of isolator switch in 'ON' and 'OFF' positions. A galvanized plate indicating 'ON' and 'OFF' position should be fixed near the operating handle to indicate ON/OFF position of the Roster Switch.
- h) The guide cum locking plate near the operating handle shall have two holes (1/4" size) at a distance of 70 mm for fixing the plate.
- i) All ferrous parts shall be hot dip galvanized and uniformity of zinc coating shall satisfy requirement of IS:2633. The pipes /tubes shall be galvanized in accordance with IS: 4736/1968
- j) The contact surface shall be silver/Nickle plated and temperature rise (IS:9921 Part II Table-2) shall be according to surface condition on which it is measured. The current density shall be less than 2.5 A per sq.mm. in copper and 1 Amp. per sq.mm aluminium.

**4. OPERATING MECHANISM:**

- a) The operating mechanism shall be suitable for normal operation by one man without strenuous efforts. The mechanism shall be so designed that all blades are in positive continuous control throughout the entire cycle of operation. It shall not be possible, after final adjustments have been made, for any part of the mechanism to be displaced at any point in the travel so as to allow improper functioning of switch, when the switch is in open or in close condition.
- b) All GI pipes used in operating mechanism of isolators shall be of medium class as per IS:1161/1979.

- c) The isolators complete with the operating mechanism should not come out of its own in open or closed position due to effect of gravity, wind pressure, vibrations, reasonable shocks or accidental touching of operating rods. The arrangement made and stoppers provided to prevent over travel shall be clearly shown in the bid drawings.
- d) The Isolators should also be capable of resisting in closed position, the dynamic and thermic effects of the maximum possible short circuit current at the installation point. Their construction should be such that they do not open under the influence of short circuit current.
- e) The earthing of operating handle shall be made through flexible copper strip of adequate cross section connected to the supporting metallic structure conforming to IS:9921 (Pt.III)-1982.
- f) Suitable inter locks shall be provided between operating mechanism so that operations are possible only in desired sequence and positions.

The salient features of the operational mechanisms are as under:

#### **I. Normal Operation:**

Under normal operation when three phase supply is given to feeder. In this situation all the three phase (R, Y, B) and neutral blades are in closed position as shown in figure at Stage-I.

#### **II. Roster Operation:**

Under Roster operation the feeder will get single phase supply and neutral only In this stage the blades of R&B phase disconnects from incoming R&B phase and connects with Y phase at outgoing side of isolator. At this stage Y phase supply connects to all three outgoing phases as shown in figure at Stage-II.

#### **III. All three phases and neutral open:**

Under this operation the feeder will not get supply at all. This is complete shut down position of the feeder. In this stage, all the three phases and neutral remains in disconnected (blades open) position as shown in figure at Stage-III. This is required for supply OFF period or for maintenance purpose.

#### **IV. Inter-locking:**

The interlocking shall be provided in such a manner that operation can be made in a sequence only i.e. from stage-I to stage-II to stage-III to stage-II to stage-I only and no operation can be skipped .Interlocking be provided in such a way that locking in all clear position (state-iii), supply can not be restore by any other way without unlocking the Roster switch.

#### **V. Locking:**

To avoid any accident/ danger to human and other bodies the locking arrangement in Stage-III shall be provided such that supply (single phase or three phase or neutral) can't be restored without unlocking the system.

### **5.0 BEARINGS:**

- a) The bearing assembly for each rotating post shall have taper thrust roller bearing at top and ball bearing at the bottom/ other end of bearing housing. The entire mechanical load shall be suspended on thrust bearings. Cross sectional drawings of the bearings shall be furnished with the bid.
- b) All the vertical operating shaft shall be supported with taper thrust roller bearing on the top and guides in between at uniform interval along its length in order to ensure smooth and easy operation.

c) A galvanized 75x40 mm M.S. channel of suitable length shall be provided for fixing of forth bearing assembly. The holes shall be of movable type and at equal distance to that of base channel.

#### **6.0 CONTACTS:**

a) The fixed contacts shall be spring loaded reverse loop type having minimum four fingers. The moving contacts shall be solid hard drawn electrolytic copper.

b) The contacts and switches blades shall be of liberal cross section to withstand the rated continuous current. The cross sectional area of fixed contact shall not be less than the size specified herein under specific technical requirement clause 12.02. The copper contacts shall be silver/nickel plated and female contacts finger(s) shall be provided with spring(s) of stainless steel. The spring shall be fixed in the finger contacts through taflon / nylon insert at both ends so that no transfer of current is possible through spring and direct electric heating of springs is avoided.

c) The contacts must be made of liberally rated electrolytic hard drawn copper suitably plated to withstand damage on account of weather conditions prevailing at site and accidental arcing. High Pressure contacts switch shall be designed with a contact pressure of ½ (half) lb per ampere of capacity. The bidders shall specifically confirm that the material components and cross sectional area of all current carrying parts shall be either exactly same or superior to that of isolator type tested for short circuit test, temperature rise test and milli-volt drop test as per relevant standards.

d) Full details of contacts and switchblades shall be given with cross sectional drawings to dimension. The temperature rise of the contacts shall not exceed the values specified in IS-9921 (Part-II/1982) at an ambient temperature 50 deg. C.

e) The successful bids while furnishing the drawings for purchaser's approval are required to furnish the details of material, size/diameter and calculation of cross section area, current density in respect of various switches, terminal pad and terminal connector etc. The comparison of sizes, area and current density in these parts of offered isolators with the required minimum sizes/ area and maximum current density as specified for respective parts shall also be required to be furnished by bidders.

The above calculation shall be furnished at various positions where holes are not provided as well as at positions where holes are provided as essentially required for joining of two different part made of same or different materials.

#### **7.0 BASE CHANNELS:**

The channels shall be of sizes mentioned in clause No. 12.02 of this specification and shall conform to IS-808.

#### **8.0 TERMINAL PAD:**

The terminal pad shall be made of electrolytic copper flat with movable feature and should be liberally sized so as to receive terminal connectors through 4 Nos. of nuts and bolts of suitable size. The terminal pad at one end shall be fitted with moving blade through flexible copper strip for movement.

#### **9.0 ELECTRIC POWER CONNECTORS (TERMINAL CONNECTORS):**

a) The isolators shall be provided with 6 nos. of bimetallic rigid type self grooved bolted type terminal clamps on incoming and outgoing sides to directly receive ACSR Rabbit/Raccoon Conductors without the use of lugs. The size of terminal connectors should match with terminal pad size specified under Clause 12.02 herein.

b) Thickness of bimetallic strip between terminal pad and aluminium terminal connectors shall be at least one mm. The current density in terminal connectors shall be less than 1.0

Amp./sq.mm. The connectors shall conform to all the test requirement of IS-5561/1970 with latest amendments.

### 10.0 BOLTS & NUTS:

- a) All bolts, nuts & washers required for assembling the equipment and for fixing them on to the structure shall be galvanized and supplied with the equipment at no extra cost.
- b) Bolts & Nuts shall also be provided with lock washers and lock nuts required for fixing post insulators on the base channel.

### 11.0 ACCESSORIES AND FITTINGS:

The following accessories and fittings shall be provided with Roster Switch:

- a) Handle suitable for locking in 'ON' & 'OFF' positions.
- b) Three earthing terminals having clamping bolt of at least 12 mm diameter.
- c) Suitable interlocking arrangement should be provided so that one operation cannot be skipped without sequence.
- d) Name plate shall be provided on the equipment as per IS-9921 (Part-5/1985).
- e) Galvanized arcing horns of liberally rated fixed rod type with make before and break after arrangement.
- f) Terminal connectors (electric power connectors) of suitable size & capacity
- g) Base channels.

### 12.0 CONSTRUCTIONAL FEATURES OF ROSTERING SWITCH:

#### 12.01 RATINGS:

Sr.No.	Particulars	11 KV Isolator
<b>A)</b>	<b>PARTICULARS OF SYSTEM</b>	
i)	Nominal system voltage	11 KV (rms)
ii)	Highest system voltage	12 KV (rms)
iii)	Frequency	50 Hz
iv)	Number of phases	3 Nos.
v)	Rated Current	400 Amps.
<b>B)</b>	<b>SERVICE CONDITIONS</b>	Suitable to work at ambient temperature of 50 deg. C.
<b>C)</b>	<b>Lightning impulse withstand voltage</b>	
i)	To earth & between poles	75 KV (Peak)
ii)	Across the isolating distance	85 KV (Peak)
<b>D)</b>	<b>One minute P.F. withstand voltage</b>	
i)	To earth & between poles	28 KV (r.m.s.)
ii)	Across the isolating distance	32 KV (r.m.s.)
iii)	Rated short time withstand current for one second	16 KA (rms)
iv)	Rated peak withstand current	40 KA (Peak)

The values of the item mentioned above shall not be less than the specified against each.

#### 12.02 SPECIFIC TECHNICAL REQUIREMENT:

1.	Phase separation (minimum)	As per drawing
2.	Minimum centre to centre distance between two adjacent poles of same phase.	425 mm
3.	Size of base channel on which insulators are to be mounted.	75x40x2500 mm
4.	Size of vertical operating pipe (Down pipe) i) Length ii) Nominal bore	3.5 Meter 25 mm
5.	Minimum length of operating handle.	500 mm
6.	Nominal bore of phase coupling pipe.	20 mm



7.	Minimum size of terminal pad (Projected portion)	50x4.5x90 mm
8.	No. of fingers in a fixed contact.	Four
9.	Min. cross sectional area of each finger.	55 sq.mm with minimum length 105 mm
10.	Diameter of arcing horn (Rod).	8 mm dia.
11.	No. and size of bolts to be provided for fixing terminal connectors with terminal pad.	4x1/4 inch dia.
12.	Size of stainless steel spring to be provided with fixed contacts. i) Gauge ii)Outer diameter iii)Min. No. of turns per coil. iv)Min. total length.	16 SWG 15 mm 6 Nos. 28 mm.
13.	Size of flexible earthing connector: i) Minimum cross sectional area. ii)Minimum Length.	50 sq.mm. 150 mm
14.	Minimum No. of guides to be provided for down pipe.	Two
15.	Size of ACSR conductor for which electric power connectors shall be suitable.	10.2 mm dia (Rabbit/ Raccoon)
16.	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.	57 mm.

### **12.03 CLEARANCES:**

The isolators shall have clearance conforming to relevant IS and should meet the requirements of the impulse voltage tests as specified therein.

**PART B: TECHNICAL SPECIFICATION FOR 12 KV POST INSULATORS  
SUITABLE FOR 11 KV, 400 AMP. OUTDOOR ROSTER SWITCH.**

**13.0 CONSTRUCTIONAL DETAILS:**

- a) The post insulator units shall be constructed out of the best quality of material suitable for weather conditions prevailing in Rajasthan. The workmanship shall be of the highest grade and the entire manufacture shall be in accordance with the modern Engineering practices. All ferrous parts shall be given an anticorrosive finish and shall be hot dip galvanized.
- b) The 12 KV post insulator with creepage distance as per relevant IS shall be used for 11 KV 400 Amps. Roster Switch. The rating of individual post insulator shall not be less than 12 KV for 11 KV Roster Switch.
- c) The porcelain used for post insulators shall be sound, free from defects, thoroughly vitrified smoothly glazed. The glaze shall be brown in colour. The glaze shall cover all the exposed porcelain parts of the insulator except those areas which serve as supports during fixing are required to be left unglazed.
- d) The porcelain and metal parts shall be assembled in such a manner that any thermal expansion between the metal parts and porcelain shall not get loose or create under strength of the unit as a whole.
- e) Cement used in the construction of post insulators shall not cause fracture by expansion or loosening by construction and proper care shall be taken to locate correctly the individual parts during cementing. The cement used shall not give rise to chemical reaction with metal fittings and its thickness shall be uniform.
- f) The porcelain and hardware surface coming in contact with cement shall be coated with bituminous paint for cushioning to relieve mechanical stress caused by temperature variation and cement expansion.
- g) All ferrous metal parts except those of stainless steel shall be hot dip galvanized and the uniformity of the zinc coating shall satisfy the requirement of IS: 2633/1972 with latest edition. The finished galvanized surface shall be smooth.
- h) The threads of the tapped holes in the post insulator metal fittings shall be cut after giving anti corrosion protection and shall be protected against rust by greasing or other similar means all other threads shall be cut before giving anti-corrosion protection. The tapped holes shall be suitable for bolts with thread having anti-corrosion protection and shall conform to IS:4218 (Part I to IV)/1967 or latest version thereof. The effective length of thread shall not be less than the nominal diameter of the bolt.
- i) The post insulator unit shall be assembled in a suitable jig to ensure the correct positioning of the top and bottom metal fittings relative to one another. The faces of the metal fittings shall be parallel and at right angles to the top and the bottom metal fittings shall be in a vertical plane containing the axis of the insulator.
- j) The post insulator shall conform the IS: 2544/1973 & IS:5350 (Part III/1971) with latest amendment if any. The total creepage distance for post insulators for 11 KV isolators shall be as per clause No. 7.3 of this specification.
- k) It shall be the sole responsibility of the supplier to carry out through inspection and quality checks on the insulators at the insulator supplier's works before offering the insulators for purchaser's inspection.

**1) Makes of the Post Insulators for the supply of 11 KV Rostering Switch**

The Post Insulators manufactured by the following manufacturers shall be acceptable for the supply of 11 KV Rostering Switch :

- M/s.Jaipur Glass & Potteries, Jaipur.
- M/s.India Potteries, Kolkata.

- M/s.Bikaner Ceramices, Bikaner.
- M/s.CJI Porcelain, Khurja.
- M/s.Vishal Melleable, Ankeleshwar.
- M/s.Allied Ceramices Pvt. Ltd., Kolkata.
- M/s.WSI, Chennai.
- M/s.IEC, Bhopal.
- M/s.MIL, Allahabad.
- M/s.Jay Shree Insulators, Vadodara.
- M/s.Birla NGK Insulators Pvt. Ltd., Halol.
- M/s.MIL, Abu Road.
- M/s.Sarvana Insulators Ltd., Kurinji Padi, Dist Cuddalore, (Tamilnadu).
- M/s BHEL

Besides above, the Post Insulators manufactured by the vendors approved by the Power Grid Corporation of India Ltd (PGCIL) and National Thermal Power Corporation (NTPC) shall also be acceptable.

#### **14.0 TECHNICAL REQUIREMENT OF POST INSULATORS:**

The standard insulation level of the post insulator unit shall be in accordance with the following:

<b>Sr.No.</b>	<b>Particulars</b>	<b>For 12 KV Insulator</b>
1.	Highest system voltage	12 KV (rms)
2.	Visible discharge test	9 KV (rms)
3.	Dry one minute power frequency test voltage	35 KV (rms)
4.	Wet one minute power frequency test voltage	35 KV (rms)
5.	Power frequency puncture withstand	35 KV (rms)
6.	Impulse voltage withstand test	35 KV (rms)

#### **15.0 DIMENSIONAL CHARACTERISTICS OF POST INSULATOR:**

<b>Sr.No.</b>	<b>Particulars</b>	<b>12 KV Post Insulator for 11 KV Isolator</b>
1.	Nominal system voltage	11 KV
2.	No. of units per stack	One
3.	Total height of	254 mm
4.	Diameter of insulating parts (max)	152 mm
5.	Minimum creepage distance of each unit	300 mm
6.	Top and bottom fitting pitch circle diameter	57 mm
7.	Centilever strength	9 KN

#### **16.0 TYPE TEST CERTIFICATE:**

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 Accreditation Cooperation ( In case of foreign laboratory) of similar rating and design of bided material/ equipment. Such type test certificates should not be older than five years as on the date of bid opening. For this purpose date of conducting type test 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/ 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 case 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

#### **17.0 CALIBRATION CERTIFICATES:**

The supplier shall present the latest calibration certificate(s) of testing instruments/ equipments to be used for the testing of the materials covered in the purchase order to the authorized inspecting officer/ inspecting agency of the purchaser. The testing instruments/ meters/ apparatus etc. should be got calibrated by the supplier from time to time from independent laboratory accredited from NABL or the manufacturer of the testing instruments having traceability to NPL or NABL accredited laboratory. The calibration certificates should not in any case be older than one year at the time of presenting the same to the inspecting officer/ inspecting agency of the purchaser. The testing instruments/ equipments should be duly sealed by the calibrating agency and mention thereof shall be indicated in the calibration certificates(s).

#### **18.0 TOLERANCE:**

Tolerance shall be allowed as per respective/ relevant Indian Standards unless otherwise specified. However, in case of current carrying parts only following negative tolerances shall be permissible :

- i) Width and thickness of strip & bimetallic strip:
  - a) Positive Tolerance : (+) No limit
  - b) Negative Tolerance: Only upto (-) 2.5% but subject to meeting the requirement of specified / approved cross sectional area.

**Tolerance of  $\pm 5\%$  in dimensions as well as in weight also be allowed.**

#### **19.0 TEMPERATURE RISE:**

a) The equipments covered by this specification shall be used outdoor and maximum temperature attained by any part of the equipment in service at site conditions and full load current shall not exceed 25 deg.C the permissible limits mentioned in the IS:9921 (Part-II)/1982 at ambient temperature of 50 deg. C. Bidders are required to mention specific degree of maximum temperature rise in GTP.

b) The temperature rise test after fitting terminal connector shall also be carried out as routine test on one switch Isolator out of each lot offered for inspection. The limit shall not exceed those specified under this specification.

#### **20.0 DRAWINGS:**

The following drawings/ technical literature of equipment covered by this specification shall be furnished by the bidders along with their bid.

- i) Outline dimensional drawings of Isolators (Hard-wares) and all other accessories and list mentioning bill of material.
- ii) Outline dimensional drawings of post insulator
- iii) Assembly drawings showing complete details of all current carrying parts and operating mechanism and mass of main components.

- iv) Longitudinal and cross sectional views for the Roster Isolator Switch (Blades, contacts, terminal clamps, interlocking, auxiliary switch ec.).
- v) Dimensional drawing of terminal connector.

#### **21.0 INSTRUCTIONS MANUALS:**

The successful bidders shall have to supply twenty sets of operating and maintenance instructions manual alongwith the erection manuals and requisite detailed drawings of the equipment covered by this specification.

#### **22.0 NAME/ RATING PLATE:**

All items of the equipments included in this specifications shall be provided with a weather and corrosion proof plate of name/trade mark of manufacturer, rating and TN in according with the provision of the IS:9921. **The name & rating plate should be riveted on base channel.**

#### **23.0 PACKING AND FORWARDING:**

i) The complete (fitted with insulator) equipment shall be packed suitably for vertical/horizontal transport and withstand handling during transport and outdoor storage during transit. The Supplier shall be responsible for any damage to the equipment during transit due to improper and inadequate packing. Wherever necessary, proper arrangement for lifting, such as lifting hooks etc. shall be provided. Any material found short inside the packing cases shall be supplied by supplier without any extra cost.

ii) Each consignment shall be accompanied by a detailed packing list containing the following information:

- a) Name of the consignee.
- b) Details of consignment.
- c) Destination.
- d) Total weight of consignment.
- e) Handling and unpacking instructions.
- f) Bill of material indicating contents of each package.

#### **24.0 TESTS:**

##### **24.1 TEST ON BOUGHT OUT ITEMS:**

Tests are not required to be performed on small bought out equipments like terminal connectors etc. at the works of manufacturer except operational tests. Inspection of the tests at Sub-contractors works will be arranged by the supplier whenever required. However the purchaser reserve the right to insist for witnessing the acceptance/routine test of the bought out items.

##### **24.2 TYPE TEST**

**TEST ON HARDWARE :** The following type tests is to be conducted on the disconnector along with insulators and terminal connectors.

1. Short time withstand current test- The test is to be carried out as per provisions of IS:9921 (Part.IV). As per clause No. 3.0.2 of IS:9921 (Part.IV). The test carried out on one type of disconnector will be applicable for different current and voltage ratings but with similar components i.e. reverse loop type fixed contacts, tubular moving contact, double break mechanism with similar post insulator. However, as per clause No. 3.3.1.1. of IS:9921 (Part.IV) the isolator subjected to type tests shall be at least favourable conditions of electro magnetic forces than offered isolator for which necessary calculations may be submitted along with offer.
2. High voltage test- The type tested isolator shall have lower or equal clearances than offered isolator i.e. for phase to phase clearance, phase to earth clearance and clearance for isolating distance.

- a) Lightning impulse voltage test.
  - b) Power frequency voltage withstand test.
3. Temperature rise test.
  4. D.C. voltage drop test or measurement of resistance of main circuit.
  5. Short time withstand current test on terminal connectors either as per provisions of IS:5561 or tested along with isolator.
  6. Mechanical endurance test.

### **24.3. TEST ON POST INSULATORS**

1. Visible discharge test.
2. Impulse voltage withstand test on post insulators.
3. Dry and wet power frequency voltage withstand test on post insulators.
4. Temperature cycle test.
5. Test for mechanical strength.
6. Puncture test.
7. Porosity test.
8. Galvanizing test.

However, the purchaser reserves the right to demand repetition of some or all the type tests in presence of purchaser's representative. For this purpose, the tenderer should indicate unit rate for carrying out such type tests. These test charges shall not be taken into consideration for bid evaluation.

During type tests the disconnecter shall be mounted on its own support structure or equivalent support structure and installed with its own operating mechanism to make the type tests representative.

The manufacturer is required to conduct following routine tests as per relevant IS on the Isolators complete with required Post Insulators at manufacturer's works .

### **24.4 ACCEPTANCE TESTS:**

The following tests shall be got conducted in presence of purchaser's representative as per relevant standards at the place of manufacturer before dispatch without any extra charges. The tests at Sr. No. 1 to 7 are to be carried out on completely assembled isolators as per IS:9921 (Part.IV). The sampling for the inspection of completely assembled isolators, offered for final inspection shall be on 10% of offered quantity (unless otherwise specified). The tests at Sr. No. 7 to 12 are to be carried out on Post Insulators as per IS:2544 and sampling will also be as per same IS, at original manufacturer's works.

1. Measurement of resistance of main circuit of isolators as per IS:9921 (Part.IV).
2. Mechanical operating test on atleast one sample selected at random.
3. Mechanical endurance test shall be done as acceptance test on one isolator of each type and rating from every lot. Mechanical endurance test shall be conducted on the main switch as well as earth switch of one disconnecter of each type and rating. Bare contacts shall not be acceptable in any case.
4. Verifications of dimensions as per approved drawing on one isolator set of each type and rating.
5. Temperature rise test on one set of isolator of each rating from the offered lot.
6. Preece Test on one isolator of each type and voltage rating as per relevant IS.
7. Verification of dimensions of post insulators.
8. Temperature cycle test on post insulators.
9. Mechanical strength test on post insulators.
10. Puncture test on 1x12KV post insulators.
11. Porosity test on post insulators.
12. Galvanizing test on post insulators.

**24.5 TYPE TEST ON SAMPLES SELECTED FROM MATERIAL RECEIVED IN STORES FROM 1<sup>st</sup> OFFERED LOT (Applicable to Successful bidders, who have not furnished valid Type Test(s) with bid, but furnished B.G. in lieu of Type Test(s))**

The first lot offered shall not be less than 10 % of the ordered qty.

One sample of each type from the 1st Lot of Isolators as received in purchaser's store shall be selected and sealed for getting it type tested at any Govt. approved/ Govt. recognized/ NABL accredited laboratory/ ILAC i.e. International Laboratory Accredited laboratory / ILAC i.e International Laboratory Accreditation Cooperation ( In case of foreign laboratory). The transportation charges of sample(s) 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 the Test House by the supplier with the 1st inspection offer. The name of test house shall be intimated to successful bidder after issue of Purchase order.

At the option of the purchaser, the material received in the stores may be utilized in the field after receipt of successful test reports from CTL, Jodhpur for the mandatory test checking on the samples selected from the material received at stores against first lot and subsequent lot(s) in anticipation of successful type test report(s).

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

**24.5.01 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.

**24.5.02 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 .

The various type tests as per relevant standards shall be conducted on each type of Isolator.

**24.6 TOLERANCE :**

Tolerance shall be allowed as per respective/ relevant standards un-less otherwise specified. However, in case of current carrying parts only following negative tolerances shall be permissible :

**Width & thickness of strip & bi-metallic strip :** Positive Tolerance: (+) No Limit  
**Negative Tolerance:** only upto (-) 2.5% but subject to meeting the requirement of specified/ approved cross- sectional area.

**25.0 INSPECTION AND TESTING:**

The successful bidder shall offer the required No. of 12 KV Post Insulators for purchasers inspection and after clearance of the above material, the complete assembled Roster Isolator Switch may be offered for inspection.

During type tests the dis-connector shall be mounted on its own support structure or equivalent support structure and installed with its own operating mechanism to make the type tests representative. The type tests are to be conducted on the disconnector along with insulators and terminal connectors.

**26.0 TESTS AT SITE:**

The purchasers reserves the right to carry out any site tests as may be decided at his own cost and will claim reimbursement from the supplier, in case the material as a result of such test/ tests is not found conforming to the prescribed specification.

**27.0 GUARANTEED TECHNICAL PARTICULARS:**

Guaranteed technical particulars as per Schedule-V for isolators and for post insulator shall be furnished alongwith the bid. Bid not accompanied with guaranteed technical particulars, type test reports and detailed drawings etc. are liable to be ignored.

**28.0 COMPLETENESS OF EQUIPMENT:**

All fittings, accessories or material which may have not been specifically mentioned in this specification, but which are usual or necessary for the equipment

shall be deemed to have been included in this specification. All equipments shall be complete in all respects. The tentative bill of material is mentioned with the drawing/ sketch.

**29.0 PRICE & PRICE VARIATION:**

a) The prices shall be quoted in Rs. per unit on F.O.R. destination basis in the manner detailed in schedule of Prices(BOQ) indicating details of ex-works price, freight & Insurance charges, GST, etc. for delivery at our stores.

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 **01.07.2019** 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.

**30.0 SPARES:**

List of spare parts recommended for five years operation shall be furnished by the bidder. The bidder shall also quote unit price F.O.R. destination of the spares.

**31.0 DELIVERY SCHEDULE :**

The bidder is required to quote monthly delivery. The delivery of quoted quantity should be completed in **7 months** period including commencement period of maximum 60 days. In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. Bids in which monthly delivery is not indicated shall be ignored.



**32.0 DELAY IN DELIVERY :-**

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

**33.0 TEST CHECKING OF MATERIAL AT TESTING LABORATORY:**

The material received in stores of Nigam shall be subjected to the test checking at testing laboratory before final acceptance of material. The procedure for testing shall be as under:

**i) SAMPLING**

One sample out of each sub lot/ lot of (100 sets) Hundred sets or part thereof from each inspected lot received in stores shall be selected from each store for test checking of material and shall be got tested. The selection of sample from the material received at stores shall be done as soon as material is received in stores without the presence of the representative of the supplier. However, testing of sample(s) at CTL or else where as arranged by the JDVVNL shall be carried out in the presence of representative of the supplier after identification / confirmation by him that samples so selected belong to them.

**(i) one extra sample of 12 KV post insulator for conducting Puncture test.**

**ii) TESTS**

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

- a) Visual examination , verification of dimensions, weight and marking.
- b) Post Insulators :       - i) Mechanical strength test. ii) Porosity test  
  iii) Puncture test.
- c) All galvanized parts.   - Uniformity of galvanization test.
- d) Checking of current carrying parts as per approved drawing
- e) Measurement of resistance of contacts ( IS :9921, Part-II)

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.

For witnessing of the testing, clear 7 (seven) days notice shall be given to the supplier by fax/ speed post stating date, time & place where the test is to be conducted. In case the supplier do not attend for witnessing the testing, the testing shall be proceeded and completed and action be taken as per the contract.

The Officer Incharge of Central Testing Lab (CTL) Jodhpur shall send copies of test reports to the purchaser, consignees and the supplier.

**iii) CRITERIA FOR ACCEPTANCE**

- a) Visual Examination, verification of dimensions, weight and marking.

As per Specification/ GTP/ approved drawing.

- b) Post Insulators : i) Mechanical strength test. ii) Porosity test  
  iii) Puncture test.

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

- c) For Uniformity of galvanization test:

- i) The sample(s) shall be first tested for (n-2) number of dips where n is specified No. of dips in the contract. If the sample does not pass the uniformity of galvanization test

for (n-2) dips, the material shall be rejected and the material relating to relevant sub-lot/ lot to which the sample(s) pertains shall have to be replaced by the supplier free of cost.

ii) If the sample has passed the uniformity of galvanization test for (n-2) dips, then it shall be tested for (n-1) dips. If the sample has not passed the uniformity of galvanization test with (n-1) dips, the material pertaining to relevant lot/sub-lot shall be accepted with a deduction @ 4% of cost of galvanized material parts.

iii) If the sample passed the uniformity of galvanization test with (n-1) dips, then sample shall be tested for last one dip of one minute to complete the test for 'n' dips. If the sample does not pass the uniformity of galvanization test with 'n' dips, then the material pertaining to relevant lot/sub-lot shall be accepted with a deduction @ 2% of cost of galvanized material parts.

iv) If the sample(s) have passed the test with number of dips as specified in the contract (n), then material pertaining to relevant lot/sub-lot shall be accepted.

**d) Checking of current carrying parts as per approved drawing :**

If the dimensions of the current carrying metal parts are in conformity with approved drawings, the material shall be accepted. When the dimensions of above parts are less than those minimum specified in the approved drawings within 5%, the material contained in the lot / sub-lot to which the sample belongs shall be accepted subject to the condition that the current density in above part is in conformity with the contract and deduction at the rate of 2% cost of above parts for every 1% or part thereof reduction in weight due to less dimensions. The deduction shall be made for the weight of above parts calculated on the basis of dimensions observed and found less. The weight shall be compared with one calculated on the basis of the minimum dimensions for the part(s) approved in the drawings.

The rates for deductions shall be taken from the relevant IEEMA Circulars applicable on the date two months prior to the date of supply. When the dimensions are less by more than 5% as compared to the dimensions as per approved drawings, the material contained in the lot / sub-lot to which the sample belongs shall be rejected and shall have to be replaced by the supplier.

**iv) TEST CHARGES :**

All test charges incurred towards test checking of the material received in our stores shall be borne by the NIGAM except that of personal expenses of the representative of the supplier for witnessing the tests.

**v) PAYMENT :**

The Payment shall be governed in accordance with the clause No. 1.42 of GCC with the following modifications :-

**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 (CPC) of respective Discoms.

**34.0 QUANTITY TOLERANCE :**

Quantity tolerance of plus minus 2% of ordered quantity shall be allowed in respect of each item for completion of supply.

**35.0 The tenderers are required to provide one extra 12 KV Post Insulator with per set as spare.**

**36.0 ADDITIONAL ORDER**

Repeat orders for additional quantities, up to 50% of original ordered quantities, may be placed by the Nigam, on the same rates, terms and conditions given in the contract.

**37.0** As GST act has been effected from 01.07.2017, 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.

Further, GST registration number of Jodhpur Discom is 08AAACJ8578R1ZJ

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

**SCHEDULE 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, 12 KV post insulators and complete with all accessories.	400 Sets

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

**Note : The tenderers are required to provide one extra 12 KV Post Insulator with per set as spare.**

SCHEDULE- II (A)**IEEMA/PVC/MVSWGR/2019(R-2)****Effective from:1st January,19**PRICE VARIATION FORMULA FOR ISOLATORS (Hardware Parts)

The price quoted / confirmed is based on the input 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 number of industrial workers as specified in the price variation clause given below. In case of any variation in these prices and Index number, the price payable shall be subject to adjustment up or down in accordance with the following formula :-

$$P = \frac{PO}{100} \left( 20 + 28 \frac{IS}{ISO} + 26 \frac{C}{CO} + 4 \frac{AL}{ALO} + 9 \frac{In}{Ino} + 13 \frac{W}{WO} \right)$$

Wherein,

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

PO = Price quoted / confirmed (Exclusive of all taxes and duties).

ISo = Wholesale price index for “Manufacture of basic metals” (Base: 2011-12 = 100) (refer notes).

This index is as applicable for the month, three month prior to the date of tendering.

Co = Average LME settlement price of copper wire bars (refer notes).

This price is as applicable for the month, one month prior to the date of tendering.

Alo = Price of busbar grade aluminium (refer notes).

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

Ino = Price of epoxy resin for indoor circuit breakers and switchgear (refer notes).

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

Wholesale price index of insulator for outdoor circuit breakers (VBF and SDB) (refer notes)

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

Wo= 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 tendering.

For example, if the date of tendering falls in May, 2019, the applicable prices of copper (Co), aluminium bus bar (Alo) should be as on 1st April 2019 and wholesale price index of “Manufacture of basic metals” (ISo) and insulating material (Ino) should be as on 1st February 2019 and all India average consumer price index number (Wo) should be for the month of January, 2019.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA (PVC)SWGR(R-1)/\_\_\_/\_\_\_ONE prevailing as on first working day of the month \_\_\_\_\_ i.e. one month prior to the date of tendering.

IS = Whole sale price index for “Manufacture of basic metals” (Base: 2011-12 = 100) (refer notes).

This index is as applicable on the first working day of the month, four months prior to the date of delivery.

C = Average LME settlement price of copper wire bars (refer notes).

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

Al = Price of busbar grade aluminium (refer notes).

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

In = Price of epoxy resin for indoor circuit breakers and switchgear (refer notes).

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

Wholesale price index of insulator for outdoor circuit breakers (VBF and SDB) (refer notes)

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

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 months, five months prior to the date of delivery.

For example, if the date of tendering falls in June, 2019, the applicable prices of copper (Co), aluminium bus bar (Alo) should be as on 1st April 2019 and wholesale price index of “Manufacture of basic metals” (ISo) and insulating material (Ino) should be as on 1st February 2019 and all India average consumer price index number (Wo) should be for the month of January, 2019.

The “date of delivery” is the date on which the product 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) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

**Note:- The base date will be 1.07.2019 irrespective of date of tender opening.**

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SCHEDULE- II (B)

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:

$$P = \frac{P_o}{100} \left( 12 + 5 \frac{Zn}{Zn_o} + 22 \frac{Fp}{Fp_o} + 27 \frac{Mp}{Mp_o} + 10 \frac{Bc}{Bc_o} + 7 \frac{Wp}{Wp_o} + 17 \frac{W}{W_o} \right)$$

Wherein,

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

P<sub>o</sub> = Price quoted/confirmed.

Zn<sub>o</sub> = 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.

Fp<sub>o</sub> = 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.

Mp<sub>o</sub> = 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.

Bc<sub>o</sub> = 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.

Wp<sub>o</sub> = 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<sub>o</sub> = All India average consumer price index number for industrial workers, as published by the Lab our Bureau, Ministry of Labor, 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 (Zn<sub>o</sub>) and Ball clay (Bc<sub>o</sub>) to be considered for the month of May 2017 whereas wholesale price index numbers for Fuel & power (Fp<sub>o</sub>), Manufacture of structural metal products (Mp<sub>o</sub>), Manufacture of wood And of products of wood And cork (Wp<sub>o</sub>) and all India average consumer price index number (W<sub>o</sub>) 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 Lab our Bureau, Ministry of Lab our, 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 : 01.07.2019**

Notes:

- (a) All prices of raw materials are exclusive of modvatable excise duty and exclusive of any other central, state or local taxes, octroi etc.
- (b) All prices are as on 1<sup>st</sup> 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 .

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**

(Name of Material/Equipment/Machinery/T&amp;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 which material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particularsto if any.
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**(Signature)**Name & Designation  
with seal of the bidder.

**SCHEDULE-III A****TN-1564****ITEM : 11 KV,400 Amp Rostering Switch with 12 KV Post Insulator****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 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 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 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.

### **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 Accreditation Corporation ( In case of foreign laboratory) of similar rating and design of tendered material. The bid of the bidders be also considered for meeting the Type Test criterion if the bidder have the requisite type test conducted successfully on the samples selected from the 1st Lot supplied to JDVVNL against previous tenders and its report are available with the Nigam & furnish certified copy of such Type Test Reports with the bid or reference of order / tender be mentioned in Bid document for verification purpose . Such type test certificates should not be older than **five years** as on the date of bid opening. For this purpose date of conducting type tests will be considered.

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 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 Lacs 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 5 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**

After having given Show Cause Notice of 30 days, and having established & cogent reasons for blacklisting of the firm as given below, the firm should immediately be blacklisted for a period of 5 years indicating reasons of doing so, in the letter itself, and a copy of such blacklisting should be given to the firm, with the approval of CLPC:-

(i) There are sufficient and strong reasons to believe that the supplier or his employee has been guilty of malpractices such as manhandling/misbehavior with Government official by supplier or his partner/employee, bribery, corruption or abatement of such a offence in a position where he could corrupt Nigam's official, fraud, vitiating fair tender process including substitution of or interpolation in tender, mis-representation, pilfer-aging or unauthorized use or disposal of Nigam's material issued for specific work etc.

(ii) Where a supplier or his partner or his representative has been convicted by a court of Law for offences involving moral turpitude in relation to the business dealing or where security considerations including suspected disloyalty to the Nigam/state so warrant the blacklisting.

(iii) If the State Bureau of Investigation or any other authorized investigating agency recommends for blacklisting after completing the investigation.

Note: - 1 If a supplier after having tendered for a supply or after negotiations gives application voluntarily vitiating the fair tendering process, it shall also tantamount to malpractice.

Note:- 2 A register containing the reasons for blacklisting the supplier as also the names of all the partner of the suppliers and the allied concerns coming within the effective influence of the blacklisted supplier will be maintained.

Note: - 3 A register of black listed supplier will be maintained which will not only include suppliers enlisted with the Enlisting Authority but also black listed suppliers in Nigam.

Note :-4 A Black listed supplier (i) shall not be entitled for registration in any of the Discom (ii) shall not be awarded any supply order in future in any Discom during the notified period.(iii) his registration if any shall stand cancelled immediately and his registration security /EMD/S.D. shall stand forfeited. (iv) In case of blacklisting of the firm by any one of Discom for the cogent prescribed reason(s) as stipulated above, the same shall be applicable to all the three Discoms and as a consequence of blacklisting, all the pending orders to that firm, will be cancelled in all three (3) Discoms with immediate effect. However in respect of completed/executed contract G.P. obligations as well as other liabilities shall be fulfilled by the supplier.

**(B) Severment of Business relation:**

(a) After having given Show Cause Notice of 30 days, and having established & cogent reasons for Severment of business relation as given below, the firm should immediately be severed the business relations for a period of 2 to 3 years indicating reasons of doing so, in the letter itself, and a copy of such severment should be given to the firm, with the approval of CLPC:-

(i) The supplier continuously refuses to pay Nigam dues without showing adequate reasons and where the purchasing authority is satisfied that no reasonable dispute attracting reference to Settlement Committee or Court of Law exists for the supplier's action of non-supply.

(ii) When vendor does not accept LOI/detailed purchase order awarded on its accepted prices and terms & conditions or does not comply with the contractual formalities.

(iii) When vendor/supplier who otherwise completed contractual formalities but does not commence supplies on the date of opening of technical bid of the fresh tender/completion of schedule delivery period whichever is later.

Note-1-In case supplier does not deposit outstanding dues towards Nigam, even after completion of severment period, the period of severment will continue.

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

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

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

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

**(C) DEBARMENT**

Reasons on which Debarment can be made:-

(i) The competent authority may debar the supplier on account of his performance or other disabilities, if it is no longer considered fit to remain under vendor registration as per his obligation under vendor registration.

(ii) If at any subsequent stage of inspection of firms after award of contract, it is found that firm does not have sufficient tech. staff or required/necessary technical equipments, the purchasing authority can debar the firm for one year or next tenders whichever is later. The debarment will be lifted only on re-inspection of firm's works; the defects noticed earlier are fully rectified to the satisfaction of Nigam.

(iii) When contract agreement executed and supplies commenced but could supply only up to 50% of ordered quantity and scheduled delivery period expired, then the firm can be debarred for one year or next tender whichever is later in that Discom only for that particular item/rating/ capacity/size etc.

(iv) The suppliers who have been awarded contract for supply of material is not adhering to the periodic delivery schedule, the contract awarding authority reserve the right to terminate the contract and may debar the firm in participating in tender for a period of 2 to 3 years.

Note:-1. On debarment, the EMD/ SD/Vendor Registration security shall be forfeited.

Note:-. 2. If the firm is debarred in one Discom for any reasons then the same should not be applicable in other Discom subject to exception that in case of common Discoms purchases such debarment of a firm would be applicable to all three Discoms for that particular item and rating/capacity/size etc.

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

Appeal against the order of blacklisting, severment and debarment can be filed before BOD within a period of 3 months from the date of intimation. The letter of appeal will be addressed to the order placing authority. Who will process the case for placing the matter in B.O.D. with in a period 60 days. The BOD may reduce or waive the penalty, if sufficient reasons/supporting documents are furnished by the supplier.

### **GENERAL CONDITIONS : - (ALL CONDITIONS BE DULY SIGNED & SEALED)**

- I) The bidder shall clearly indicate the deviations such as 'Technical Deviation & Commercial Deviations' in the prescribed proforma only. The deviations indicated elsewhere in the bid shall not be accepted.
- II) The bidder must clearly fill up each and every particular of guaranteed technical particulars annexed with Technical Specifications otherwise he will be responsible for Technical Non-responsiveness.
- III) All documents required in the prescribed format are to be furnished along with the bid itself only except an attested copy of BIS license (wherever it is required), failing which the bid will be summarily rejected.
- IV) However, a copy of BIS License may be submitted by the bidder up to the official working hours of one working day prior to the schedule / notified date of opening of price bid.

**SCHEDULE-III-B**

**BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE**

(On Rajasthan Non-Judicial Stamp Paper worth 0.25% of BG value or maximum upto Rs. 25,000/-)

To,

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

Dear Sir,

Whereas Jodhpur Vidyut Vitran Nigam Limited, Jodhpur (hereinafter called the Purchaser) has issued a tender enquiry under TN\_\_\_\_\_for procurement of \_\_\_\_\_(name of material).

Whereas M/s \_\_\_\_\_(hereinafter called the bidder) has furnished a bid for supply of \_\_\_\_\_to the Superintending Engineer(MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur.

Whereas in accordance with the provision of the specification of the aforesaid TN\_\_\_\_\_, the bidder can deposit a bank guarantee in lieu of the requirement of furnishing the type test certificates.

Whereas M/s \_\_\_\_\_(the bidder) have requested us (Name of the Bank) to furnish the bank guarantee, in lieu of the type test certificate, for an amount equivalent to Rs. \_\_\_\_\_(in words also) only.

Under this Bank Guarantee, we (Name of the Bank) hereby undertake unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to the purchaser on his first demand without whatsoever right of objection on our part and without his first claim to the bidder, in the amount not exceeding (amount of guarantee in figures and words).

Payment pursuant to this undertaking will be demanded by the purchaser from the Bank and will be met by the Bank without question in the case in which the bidder, on receipt of the order and/or after the acceptance of this tender, makes default in furnishing the required type test certificates as to whether the occasion or ground has arisen for such demand the decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur shall be final.

The liability of the Bank shall not at any time exceed Rs. \_\_\_\_\_(Rupees \_\_\_\_\_).

The undertaking will be determined on but will not withstanding such determination, continue to be in force till the expiry of 3 months from that date.

No indulgence or grant of time by the purchaser to the bidder without the acknowledgement of the Bank will discharge the liabilities of the Bank under this guarantee.

The guarantee herein contained shall not be affected by any change in the constitution of the bidder.

All disputes arising under the said guarantee between the Bank and the bidder or between the bidder and the purchaser pertaining to the guarantee shall be subject to the jurisdiction of Courts only at Jodhpur in Rajasthan.

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

Notwithstanding anything contained herein before, the Bank's liability under this guarantee i.e. restricted to Rs. \_\_\_\_\_(Rupees \_\_\_\_\_) and the guarantee shall remain in force within three months from that date, the Bank shall be released and discharged from all liabilities

there under. However, the validity of the bank guarantee shall be extended as and when required by the purchaser.

IN WITNESS WHEREOF THE Bank has executed these presents the day \_\_\_\_ month \_\_\_\_ and year \_\_\_\_\_.

Yours faithfully,

(Bankers)  
EXECUTANT

Witnesses:

- 1.
- 2.



**TN-1564****ITEM- 11KV,400 AMP ROSTERING SWITCH WITH 12 KV POST INSULATORS**

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

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

Dear Sir,

With reference to your invitation to tender against specification No. JdVVNL/SE/MM&C/TN-1564 we agree to supply the following quantity:

S. No.	Particulars of Items	Tendered Quantity	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
1	11KV, 400 Amp Rostering switch With 12 KV Post Insulators	400 Sets			

1. The offer is valid for a period of 120 days after the date of opening of this tender.
2. The prices are variable with base date of different component as per PV formula given at Schedule-II
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 clause as given in Schedule-VIII of this specification. In case we fail to deliver the material as indicated in the clause No. 1.23 of G.C.C. (Section-II), we are liable to pay recovery for delay in delivery as per clause No. 1.24 of this Section-II of this specification.  
The material shall conform to your specification No. JdVVNL/SE/MM&C/TN-1564 and as per relevant ISS in all respectt.
5. We confirm that we agree to all the terms & conditions as well as the technical stipulations of your specification No. JdVVNL/SE/MM&C/TN-1564 and there are no deviations other than as specified in the Schedule VI (A&B).

Yours faithfully,

Signature of tenderer 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 12 KV POST INSULATORS ASSEMBLED  
AGAINST TN-1564**

<b>Sr.No</b>	<b>Particulars</b>	<b>11 KV ROSTERING SWITCH</b>
<b>A) RATINGS</b>		
<b>1) a)</b>	Name of Manufacturer & Address	
<b>b)</b>	Work address	
<b>c)</b>	GST registration no.	
<b>2)</b>	Standard according to which the isolator are manufactured	
<b>3)</b>	<b>PARTICULARS OF SYSTEM</b>	
i)	Nominal system voltage	
ii)	Highest system voltage	
iii)	Frequency	
iv)	Number of phases	
v)	Rated Current	
<b>4)</b>	<b>SERVICE CONDITIONS</b>	
<b>5)</b>	<b>Lightning impulse withstand voltage</b>	
i)	To earth & between poles	
ii)	Across the isolating distance	
<b>4)</b>	<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	
<b>E) Marking</b>		

Signature of tenderer with stamp  
Dated.

**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 with minimum length 105 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	TAFILON	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.	2	G.I. PIPE 25 mm N.B. x 3.5 mtr. L.G.
19	OPERATING HANDLE	G.I.	2	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.	2	-
23	GALVANISED GUIDE CUM LOCKING PLATE	M.S.	2	WITH TWO HOLES 0¼" AT A 70 mm C/C
24	FLEXIBLE COPPER FOR OPERATING HANDLE	FLEXIBLE COPPER	3	50 Sq.mm x 150 mm LONG
25	GALVANISED EARTHING TERMINAL	M.S.	4	0 12 mm G.I. BOLT
26	GALVANISED INTERLOCKING ARRANGEMENT BETWEEN OPERATING MECHANISM	M.S. CHANNEL / FLAT	As required	

**Schedule – V B**

**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.....

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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)**

**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:-

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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)**

**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:-

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

**(Signature)**

Name & Designation  
with seal of the bidder.

## Schedule – VII

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

If executed partially be mentioned (Qty. in Sets)	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 /Organisations.

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



**TN-1564**

**Schedule-VII-A**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. \_\_\_\_\_ (Complete with address) have manufactured and supplied the goods/ equipments/ material during the following financial year(s) to the 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 & particulars of purchasing authority	Order No. & Date against which item(s) supplied	Unit	Ordered		Actual Supplied Up to		Remarks
						Qty	Value (Rs.)	Qty	Value (Rs.)	

Signature

Signature & Seal of C.A.

Name & Designation  
With Seal of the Bidder  
Date \_\_\_\_\_  
Place \_\_\_\_\_

Name:  
Address  
  
Membership No.

The above particulars are true and correct based on explanations, records and books of accounts produced before us. Further the above certificate issued on the request of the company.

CA Firm(\_\_\_\_\_)

**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

**Schedule – VIII****JODHPUR 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	SEVEN 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.

**Schedule – IX**

**JODHPUR VIDYUT VITRAN NIGAM LIMITED**

**A Govt. of Rajasthan Undertaking**

List of Equipments and Technical Hands Available with the Firm

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

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

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

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

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 :

**Schedule – X**

**Format of Affidavit  
(ON NON JUDICIAL STAMP OF RS. 100/-)**

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 favour of Superintending Engineer (MM&C), JDVVNL, Jodhpur, be deposited to the Sr. Accounts Officer (MM&C), JDVVNL, New Power House, Industrial Area, Jodhpur-342003 **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 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 **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., may now be read as G.S.T.**

**5) Due Date of payment:**

Payment shall be due and payable by the purchaser in accordance with the provision of the contract within a reasonable period from the date of receipt of each invoice by the contractor / supplier duly supported by a certificate of the Engineer. The purchaser will take all possible effort to make payment to the contractor / supplier generally on **45<sup>th</sup> day** after receipt of duly verified challans / receipts / bill in the office of paying authority (Sr. Accounts Officer (Cash &CPC) Jodhpur Discom, Jodhpur / Concerned Circle Accounts Officer) and completion of contractual formalities. But in case of delay in payment the purchaser shall not be liable to pay any interest on the outstanding amount to the contractor / supplier.



**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 Vitaran 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-A**

**SELF ATTESTED UNDERTAKING TO BE GIVEN ON FIRM'S LETTER HEAD**

**We, the undersigned declare that:**

- 1. Our firm, its affiliates of subsidiaries including any subcontractor or suppliers for any part of the contract have not debarred by the state government or the procuring entity or a regulatory authority under any applicable law.**
- 2. We declare that we have complied with and shall continue to comply with the provision of the code of integrity including conflict of interest as specified for bidders in the RTPP Act 2012, RTPP Rules 2013 and the bidding document during the procurement process and execution of contract till completion of all our obligation under contract.**

**Firm's Name  
Seal & Signature**