

Save Energy for Benefit of Self and Nation

UGVCL

Uttar Gujarat Vij Company Limited

CIN - U40102GJ2003SGC042906  
(A subsidiary of Gujarat Urja Vikas Nigam Limited)

75  
Azadi Ka  
Amrit Mahotsav

GST No.-24AAACU6551F1ZI

PR No:	500642
RFQ No:	68844

ADVERTISED TENDER NO: MSNCO/108/2022

**Name of Work:-** supply of Reusable UVE Resistance Straight Boot for Transformer protection for ONGC WELL CON. for JOTANA SDn under D.O Mehsana UGVCL

Estimate cost.	Rs. 2,52,000.00
Earnest Money.	Rs. 2520.00
Security Deposit.	10% of Order value
Relevant documents (By Registered Post A.D. or Speed Post only) submission date	On or before date 20/08/2022 Up to 18.00 Hrs
Date of opening of Tender fee, EMD cover and Technical Bid physical as well as online(if possible)	Date 22/08/2022 up to 12.00 Hrs
Type of tender	Percentage Rate.
Tender Fee	Rs.500+18% GST = (500+90=590 Rs.)
Time Limit.	1 months

Earnest money deposit will be accepted in cash or by demand draft on any nationalized bank at Mehsana in favour of UTTAR GUJARAT VIJ COMPANY LIMITED. Cheque or Bank guarantee will not be accepted. The tender without Earnest Money deposit will not be accepted. The date of D.D of EMD should be within 10 days from the date of receipt of tender.

NOTE: This is online tender and put at [www.ugvcl.com](http://www.ugvcl.com) site so fill on line and must send tender through RPAD. All the relevant documents as per requirement of the tender to be submitted physically. Tender received through RPAD only will be accepted.

SUPDT.ACCTT. (Exp)  
UGVCL, Mehsana DO

EXECUTIVE ENGINEER  
UGVCL, Mehsana DO

**To be filed in the Tender.**

- (1) Tendered Value : (To be filed by the Contractor) Rs. \_\_\_\_\_
- (2) Earnest Money Deposit Paid vide DD No. \_\_\_\_\_ Date \_\_\_\_\_ Rs \_\_\_\_\_
- (3) GST No. \_\_\_\_\_ Date:- \_\_\_\_\_

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**PR NO- 500642**

**SCHEDULE – B**

**RFQ-68844**

**Sub.:-** supply of Reusable UVE Resistance Straight Boot for Transformer protection for ONGC WELL CON.for JOTANA SDn under D.O Mehsana UGVCL.

Line No.	Item Description	UOM	QTY	Price (INR)	Total AMT (INR)
1	Reusable UVE resistance straight boots for Transformer 11/22KV.	1 Set (3no)	140		
2	Ethylene propylene Rubber Tape (EPR) of 2 inch wide, 10 meter long roll.	NO	70		
				<b>Total</b>	
				.....% GST	
				<b>GRAND TOTAL</b>	

SIGNATURE OF SUPPLIER  
WITH SEAL

EXECUTIVE ENGINEER  
UGVCL, MEHSANA DO

સદર ટેન્ડર ના એક કવર માં બે અલગ અલગ કવર મુકવાના રેહશે. (૧) ટેકનીકલ બીડ- ડીમાન્ડ ડ્રાફ્ટ સાથે બધા દસ્તાવેજ સાથે નું કવર (૨) ભાવપત્રક નું કવર.

Supplier Must give Sempal of Material to D.O Mehsana before Open the Tendar. If Supplier is not given Sempal of Material then Tendar is not Open & treated as a Rejected ..

**REMARKS:**

i) F.O.R. Mehsana DIVISION STORE AT Mehsana.

Note: - 1. Time Limit: 1 Month from the date of confirmed order

## PROPOSED TECHNICAL SPECIFICATION FOR VERTICAL CABLE BOOTS FOR TRANSFORMER BUSHING WITH WATER DRAINING ARRANGEMENT

### 1.0 SCOPE:

This specification covers the technical requirements of design, manufacturing & testing at manufacturer's works, packing, forwarding, supply and unloading at store of Terminal protector or cable boot for Transformer required for safe and satisfactory operation of various makes of Transformers.

### 2.0 DESIGN FEATURES –

- Accommodates a large cable cross section, 70-300 sq.mm
- Prevents Flashover Due to Humid Environment in HT Cable Entry Box
- Protection from Flashover to Intervention by Reptiles, Birds, Animals
- Is easy to fit
- Is re-openable and re-usable

The vertical cable boots should be manufactured from electrically insulating, temperature resistant and weather resistant rubber material. The cable boot should have an inspection hole which should be covered with removable cap. The cable boot should have following dimensions –

Length: >300 mm (vertical Boot),  
Cable/conductor Entry top of boot: >Ø15 mm,  
Thickness: 4.5 ± 0.5 mm  
Inside diameter of bottom of boot: Ø72 mm  
Inside diameter of Grommet: Ø35 mm  
Rain shade cable/conductor entry hole: Ø10 m

The vertical cable boot should be fitted on the transformer bushing using a grommet. Grommets must have Slots for Water Passage and 3 legs attached to the grommet to ensure draining of water.

### 3.0 GUARANTEED TECHNICAL PARTICULARS:

Guaranteed Technical particulars are given in enclosed Annexure A. Bidder Shall submit the data in given Performa.

### 4.0 DOCUMENTS:

Following documents/certificates shall be furnished by the bidder along with offer.

1. Tender Notice copy (downloaded).with sign of Bidder on every page.
2. Bidder should produce PAN No. copy.

3. Copy of GST registration
4. D.D of Tendar Fee & E.M.D.( D.D in favour of UGVCL Payable at Mehsana )
5. Sempal of Material as per Requirement of Schedule-
  - i) Guaranteed technical particulars (GTP).
  - ii) Test Certificate.
  - iii) Quality Assurance Plan (QAP)

**If Mehsana D.O has required Testing of Material, then Material is Testing done Approve NABL Lab.All Expanse of NABL Lab must be paid By Supplier.**

#### **5.0 TYPE TEST CERTIFICATE:**

Type testing to done for 33kV Transformer and the vertical cable boot is suitable for transformer of 33kV, 22kV and 11kV.

The bidder shall submit Following Type Test with ERDA Test certificate Tested as per IEC: 60060 - 1 – 2010. Type Test Certificate should not be older than 5 years as on the date of tender Opening.

#### **Material test**

- 1) Exposure to UV Radiation
- 2) Oxygen Index test
- 3) Dissipation Factor
- 4) Hardness
- 5) Dielectric constant
- 6) Compression set
- 7) Comparative Tracking Index

#### **Electrical Test in accordance to IEC:60060-1-2010**

1. Dry Power Frequency Voltage Withstand Test – 70 kV for 1 min
1. Impulse Withstand Test – 170 kVp
2. Leakage Current Test at 36 kV.
3. Exposure to UV Radiation – 500 Hours
4. Salt Fog Test – 500 Hours
5. Heat Ageing Test 7 Days at 70°C
6. Heat Ageing Test 7 Days at 70°C
7. Tracking test (Comparative Tracking Index) IEC 60112:2003 +A1:2009
8. Water absorption test 0.5 max
9. DC Voltage Withstand 54 kv DC for 5 min.

#### **5.1 ROUTINE TEST:**

Manufacturer has to carryout routine test during production to check the essential Requirements that is likely to vary during production. Manufacture has to keep records Of the same and to be produced for verification of inspector when asked at the time of Inspection of lot.

#### **5.2 ACCEPTANCE TEST:**

- Dimensional Inspection Report
- Hardness of the material of the lot (On Test Button) As per ASTM D2240
- Tensile Testing on specimen of the material of the lot (As per ASTM D412)
- Elongation Testing specimen of the material of the lot (As per ASTM D412)
- Dielectric Strength Test on specimen of the material of the lot (As per ASTM D149)
- Volume Resistivity (As per ASTM D257)

- Flame Retardant Test for one minute – No burning (self – extinguish) EN 13501

#### 6.0 GENERAL AND Tender Sample:

The tenders received without complete details required as per enclosed Forms/ schedules or Documents are liable to be rejected without Prior Information.

A. Sample as per specifications will have to be submitted before or at the Date of Physically Bid Submission Date at Mehsana Store UGVCL.

The bidder should submit Performance certificate not below the rank of Executive from Discom under GUVNL Subsidiary Company.

#### 7.0 FACILITY:

The bidder shall have facility to perform testing as per Acceptance Testing

#### 8.0 MARKING:

The product should contain –

1. Manufacturer's Logo
2. Brand Name

GTP for Vertical Cable Boot				
Sr. No	Descriptions	Testing Standard	Unit	Vendor Data
1	Name of Manufacturer			As per Tech Data
2	Nominal system voltage		kV	11
3	Maximum system voltage		kV	11
4	Name and type/grade of material			EPDM
5	Average / Minimum wall thickness		Mm	4.5 ± 0.5 mm
8	Operating temperature		Deg.C	-10 to + 110
9	Low Temp. Flexibility		-	No Cracking
10	Applicable standards			Tested as per IEC: 60060 - 1 - 2010
11	Dielectric strength	ASTM D149	kV/mm	12 kV/mm (min)
12	AC High voltage power frequency	IEC: 60060 - 1 - 2010	kV	70 kV for 1 min
13	Impulse with stand 1.2 / 50 peak	IEC: 60060 - 1 - 2010	kV	125 kVp
14	Volume Resistivity	ASTM D257	Ohm -cm	1 x 10 <sup>14</sup> (Min)

15	Tensile strength			10 N/mm2 (Min)
16	Ultimate Elongation			200% (Min)
17	Temperature in °C (Max/Min/Year Average)			50/0/40
18	UV Protection			YES
19	Colour			Reddish brown
20	Flame retardant			No burning
15	Each sample kit shall contain			1. Straight Cable Boot - 3 Nos. (Having Grommet with water holes on border side and additional minor 2 holes required to proper drainage of water, Rain shade - 3 Nos., Cap - 3 Nos., Silicone Grease - 1 Bottle (30 ml aprx.) 2. ERP Tape- 3M make, 25 mm width, 2 meter long 3. Installation Instruction Manual Packed in corrugated box.

Ref Standard: Tensile Strength - ASTM D412, Dielectric Strength: ASTM D149, Volume Resistivity – ASTM D257

#### GENERAL CONDITIONS:-

##### 1. Earnest Money Deposit:-

- A. Earnest Money Deposit 1% of the estimated cost or minimum Rs.2520/- or indicated on the Tender Copy should be paid by the tenderer along with the tender fee in cash or by demand draft on any schedule bank in favour of UGVCL in which cash receipt shall be attached with tender invariably.
- B. Tender without earnest money will not be considered for acceptance.
- C. Earnest Money Deposit will be forfeited in case the successful tenderer after his tender has been accepted fails to pay the prescribed Security Deposit.

##### 2. Acceptance of Tender:-

The Board does not bind itself to accept the lowest or any tender, without give any reason be assigned for the rejection. It is also not binding on the Board to disclose any analysis reports on the tender. Conditionally tender will not be accepted.

##### 3. Security Deposit:-

The lowest tender whose tender is accepted shall have to pay 10% security deposit of the order value within 10 days from the receipt of the acceptance order. If you fail to supply the material within time limit your security deposit will be forfeited.

##### 4. Jurisdiction:-

Any dispute of difference arising under this connection with contract shall be subject To the exclusive jurisdiction of Mehsana.

##### 1. Payment:-

- 
- A. The payment will be made within 30 days on receipt of the material by crossed cheque on local bank subject by and advance stamped receipt being received from payee.
- B. Accepting authority reserved the right to rejection of any or all tenders without giving any reason thereof.

**6. General:-**

- A. The tenderer must quote his rate per units specified the schedule including all taxes in figures as well as in words. If there is difference between rates quoted in words or figures quoted in words shall prevail.
- B. All tender must be submitted in forms provided by this office and must be clearly & legibly filed in. The tenders should be filled in ink. The tenderers are requested to sign wherever mentioned in tender and schedule or rates and if not signed the tender shall be rejected.

**7. Penalty of Late Delivery:-**

In case if the materials are not supplied within time limit the penalty for late delivery will be charged as decided by the competent authority.

**If the bill for the work, after reconciling inventory given to contractor and depositing back the surplus material to respective Division Store, is not submitted within one month from the work completion date as per work completion date, then penalty @500 per week or part thereof plus applicable GST subject to maximum of 10% of order value plus applicable GST will be deducted.**

8. After Final order is given to supplier, Material is given as per Approved Sempal. If Material is given not good Quality , Material is Return to supplier & take from division store Mehsana his own cost of supplier. & Replace new Material..

**9. Acceptance of Suppliers:-**

In case of any dispute regarding supply of material or any other defect found. The undersigned will have full right to reject the entire quantity and binding to the supplier.

**10. REPEAT ORDER**

The Company may place repeat Order / additional Order after obtaining written consent of successful bidder, provided there is no conspicuous downtrend in the price of such item after obtaining approval from next authority of order approving authority. The Company reserve the right to place repeat orders / additional orders on the successful Tenderers up to 50% of the original quantity / amount of the A/T at the same Prices, Terms and Conditions stipulated in the original contract. The work completion period for repeat order should be given considering proportionate schedule of main order and it will be started on completion of contractual delivery period of main order. The company reserves the right to reduce the quantity, if required.

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**GST No.-24AAACU6551F1ZI**

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Signature of Supplier with  
Rubber Stamp

Executive Engineer,  
UGVCL, Mehsana DO