

UGVCL/PCO/JE/T-3/

DT.

<u>PR NO</u>	<u>329968</u>
<u>RFQ NO</u>	<u>45691</u>

ADVERTISED TENDER NOTICE NO.. 17 /2017-18

Name of Work :- TENDER FOR SUPPLY OF **Numerical relay** For SDT for feeder bifurcation and Maintenance.

Estimate cost.	Rs. 3,00,000
Earnest Money.	Rs. 3000.00
Security Deposit.	10% ORDER VALUE
Last date of receipt of tender at	Date :- 24-10-2017 On 15.00 Hrs.
Date of opening the tender at	Date: - 25-10-2017 On 16.00 Hrs. (If Possible)
Type of tender	Item Rate.
Tender Fee + 18% GST	Rs. 500.00 + 90.00 ( GST )
Time Limit.	30 DAYS

Earnest money deposit will be accepted in cash or by demand draft on any schedule bank at PALANPUR in favor of UTTAR GUJARAT VIJ COMPANY LIMITED, cheques or Bank guarantee will not be accep

**GST NO. Copy must be attach with technical bid**

Tender received through RPAD will be accepted.

The Account officer (EXP)

UGVCL, C. O., PALANPUR.

SUPRINTENDING ENGINEER  
UGVCL, CIRCLE

OFFICE, PALANPUR.

To be filled in the Tender.

- (1) Tendered Value :  
(To be filed by the Contractor) Rs. \_\_\_\_\_
- (2) Earnest Money Deposit  
Paid vide Receipt  
No. \_\_\_\_\_ Date \_\_\_\_\_ Rs \_\_\_\_\_
- (3) SALES TAX NO. \_\_\_\_\_  
Date:- \_\_\_\_\_ PAN NO. \_\_\_\_\_

**U.G.V.C.L., CIRCLE OFFICE, PALANPUR**

**GENERAL CONDITIONS:-**

**Technical bid and commercial bid shall be submitted in separate envelop**

**1. Earnest Money Deposit:-**

- A. Earnest Money Deposit 1% of the estimated cost Rs.500/- 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 favor 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.
- D. **GST NO.** Copy must be attach with technical bid

**2. Acceptance of Tender:-**

The UGVCL does not bind itself to accept the lowest or any tender, without giving any reason be assigned for the rejection. It is also not binding on the UGVCL 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. Taxes and Duties:-**

The prices are excluding GST and Cess as applicable which will be paid extra on a given taxable goods and/or services within the original contractual delivery period. The amount and % of GST and Cess as applicable should clearly be indicated separately. (GST/Cess means all applicable Tax/Cess under GST Laws. GST Laws means IGST Act, GST (Compensation to the State for Loss of Revenue) Act, CGST Act, UGST Act and SGST Act, 2017 and all related ancilliary legislations).

Supplier/Contractor should charge GST in Invoice at the rate as agreed to / mentioned in acceptance of tender only and any deviation in the same shall not be accepted. Further, any additional liability of GST (later on due to wrong mentioning of GST rate, mis-interpretation of HSN/SAC Code, etc.) over and above as charged in the invoice shall be borne by the Supplier/Contractor. However, any refund received by the supplier / contractor on account of GST charged from the company; such refund shall have to be passed on to the company, along with interest if any. Such refund along with interest needs to be passed on suo-moto by the supplier / contractor.

Further, the Company has a right to recover the amount of GST along with penal interest at the rate of 15% per annum if GST charged is not paid / short paid to the government or fail to upload the details or uploads inaccurate particulars on GSTIN portal by the Supplier / Contractor within the stipulated time limit.

In case, Govt. revises the rate of GST rate / Code during the tenure of the contract, the provision of UGVCL's statutory variation clause shall apply.

**5. Statutory Variation:-**

Any statutory increase or decrease in the taxes and duties including GST and Cess as applicable or in the event of introduction of new tax/cess or cessation of existing tax/cess subsequent to contractors offer if it takes place within the original contractual delivery date will be to COMPANY's account subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to be passed on to COMPANY.

**6. Jurisdiction:-**

Any dispute of difference arising under this connection with contract shall be subject to the exclusive jurisdiction of Palanpur (N.G.)

**7. 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.

**8. 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 filled 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.

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

Penalty shall be @ 0.5% per Week or part thereof plus GST as applicable on delayed portion subject to maximum 10% plus GST as applicable of the delayed portion Order Value (End Cost with GST and Cess as applicable) in case of supply only, whereas in case of Projects, the ceiling shall be with reference to total contract value with GST and Cess as applicable of the project (Supply + Erection + Civil). For calculating the delayed portion, date of actual receipt of material at store shall be considered.

**10. 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.

Signature of Tenderer with  
Rubber Stamp  
PALANPUR.

Superintending Engineer,  
UGVCL, Circle Office,

**SCHEDULE - B**

Sr. No.	Description	Qty.	Rate Rs. Per No.	Amount
1	Supply of Numerical Relay suitable for SDT system as per Annexure-A	41 Nos.		

(Rs. \_\_\_\_\_) in words \_\_\_\_\_ )

**REMARKS:**

i) F.O.R. Palanpur R.S.O.

ii) Before supply of materials acceptance test is required to be carried out if necessary at your work. If there is no facility at your works then it will be tested at ERDA/Any Govt. approved Lab. as desired by you at your risk and cost.

The entire materials should be supplied within a period of 30 days from the date of orders. Time factor is very essential. It will be ascertained before we place orders for supply of goods. In case the materials will not be delivered within the period stipulated in the order, you will liable to pay at the discretion of the competent authority, a penalty to the Board up to ½% per week on the price subject to a maximum of 10% reckoned on the order value o such materials. Due consideration will be given in the levy of penalty for reason absolutely beyond your control for which documentary evidence will have to be produced to the satisfaction of the competent authority of the UGVCL.

In case the assigned store materials are not found in accordance with prescribed specification and approval sample, the UGVCL, shall exercise its discretionary power either to recover from supplier or by way of penalty or to purchase from elsewhere at the risk and cost of supplier. The defective and having bad designs and imperfect other than specified in Schedule 'B' will not be accepted and it will be rejected at the cost and risk of supplier.

Sign. And Stamp of Supplier

Superintending Engineer,  
PALANPUR.

Tenders should invariably furnish an attested copy of their valid BIS License (with all the enclosures of the BIS license) held by their firm using IS/BIS Mark.

I/We agree to supply the articles noted above at the rates here in tendered by me/us subject to the condition of Tender and supply of the Tender inquiry which I/We have carefully read and which I/We have thoroughly understood and to which I/We agree.

I/We hereby agree to keep this offer open for 30 days after the returnable date of tender and shall be bound by communication of acceptance dispatched within the prescribed time.

Note: -1. Rates are inclusive of all taxes.  
2. Destination: FOR: RSO, Palanpur.  
3. Time Limit: 1 Month from the date of confirmed order.

Contractor's signature with Name  
Date:

Superintending Engineer,

**QUALIFYING REQUIREMENT FOR BIDDERS:**

1. The bidder should be a manufacturer of Protective Relays, who has designed, manufactured, and successfully, tested as per IS/IEC or any equivalent standard.
2. Bidders not meeting the requirement as at 1 above but where the supplier is authorized by OEM and manufacturer has supplied similar protective relays of at least the minimum rating specified can also participate provided they have valid on going authorization from manufacturer. In such an event, the bidder shall furnish, along with his bid, documentary evidence for the same and an undertaking from the bidder and manufacturer accepting joint and several liability of all obligations under the contract.
3. Bidder shall invariably furnish enough credentials like order copies, client certificates in support of bid.
4. Further, the bidder shall furnish, with his bid type test reports as per IS/IEC or any equivalent standard of the Protective Relays being offered. The Type Test should have been conducted in accredited National lab.
5. The manufacturer shall have adequate design infrastructure and manufacturing facility and capacity and procedures including quality control and demonstrate the same in his bid through relevant documents.
6. Notwithstanding anything stated above, the owner reserves the right to assess.

**SCOPE OF WORK:**

The overall scope of work proposed, to be assigned to the successful Bidder according to this specification covered under the following aspects.

- Design and manufacture of relay and relay assemblies to meet the requirement of Numerical protection Relays suitable for Special Design

Transformer (SDT) with the single phase power supply system developed by UGVCL.

- Supply of relays along with set of manufacturer's test certificate for functional & routine test at manufacturer's works and detailed user manual.
- F.O.R. destination supply of all the items listed in package.
- Training to UGVCL Engineers & field staff about operational feature of relay & free commissioning support at site where ever required by UGVCL.
- All the relays shall be supplied with following initial(default) settings ( which should be programmable and can be reset as per requirements)

IDMT :  $ie>$  ( Current setting) :  $0.4 \times I_n$

$Tie>$  ( TMS ) : 0.04

High Set  $ie>>$  (Instantaneous):  $8 \times I_n$

$Tie>>$  : 0.02 Sec.

IDMT Characteristic : Normal inverse 3.0

### **PRINCIPAL TECHNICAL SPECIFICATIONS:**

This section covers the supply of Numerical relays as per principal technical Specifications Annexure-I. It is not the intent to specify herein all the Accessories and miscellaneous items required for the complete Functionality of the scheme. However, the bidder should have to include all such items in his scope of supply, whether specifically listed out in the Specifications or not.

### **STANDARDS:**

Unless otherwise specified elsewhere, in this specification, the rating, Performance and testing of relays, equipments etc. shall conform to the Latest revisions, available at the time of placement of order of all relevant standards as per IS: 3231/IEC-60255 or other applicable standards. However the supplier shall submit the copies of the relevant standards applicable to the protective relay offered.

**TYPE TEST:**

Offered relay shall be fully type tested as per IEC- 60255 relevant standards. Test certificate shall be supplied along with offer for all relays offered by the bidder.

**GUARANTEE:**

Product supplied against this specification shall be guaranteed for a Period of 24 months from the date of commissioning at site or 30 months from the date of receipt at the destination store center which ever earlier. However any engineering error, mission, wrong provision, equipment failure etc., if found during actual commissioning of the Equipment shall be replaced /rectified immediately by the tendered free of cost.



## **ANNEXURE - A**

### **PRINCIPAL TECHNICAL SPECIFICATION**

**Protection relay suitable for special Design transformer (SDT) with single phase power supply System**

Offered relay should be as per specifications mentioned below:

- Shall be Numerical type.
- Shall have TRUE RMS Measurement.
- Shall be Non directional IDMT Earth Fault protection with instantaneous high set. (50N+51N) with ENABLE / DISEABLE facility.
- Shall be with “Trip Test” facility using relay front panel without injecting secondary current to relay.
- Shall have built in relay software & hard ware supervision & facility to have separate output contact.
- Shall have facility to assign output relay / contact for each protection function
- Shall be with configurable relay reset (Auto / Hand) using HMI
- Shall be with password protection.

#### **ON LINE MONITORING & FAULT RECORDING:**

- Numerical relay with min. 2 X16 character LCD for on line display of parameters.
- Shall view the real time RMS value.
- Shall be able to store at least last 3 immediate past fault records viz. Fault current, type of fault, faulty element etc.

#### **RELAY SETTING:**

1. Earth Fault (Low set):
  - Current setting: 5 to 250 % (in steps of 5%)
  - IDMT Time Multiplier Setting (TMS) – 0.01 to 1.5 S (in steps of 0.005)
  - DEFT time delay : 0.03 to 150 Sec (in steps of 0.01 Sec)
  
2. Selectable IDMT characteristics :

- Normal inverse 3.0 sec / Normal Inverse 1.3 sec / Normal Inverse 0.6 Sec / Very inverse / Extremely inverse
- 3. Instantaneous Earth Fault (High set):
  - Current setting: 50 to 1500 % (in steps of 50%)
  - Time delay : 0.02 to 20 Sec (in steps of 0.01 Sec)
- 4. Reset Delay - 0.01 to 20 Sec (in steps of 0.1 Sec)
- 5. Pick up: Within 1.1 times of set current value.
- 6. Reset current: 95% to 90% of pick-up current.
- 7. Operating Time: As per selectable characteristic.
- 8. For Inst. Element < 40 ms for 2xIn.

**RELAY HARDWARE:**

- Mounting - Flush
- Should be with Screwed type
- CT secondary –1A, 50 Hz  $\pm 2.5$  Hz
- Universal Auxiliary Supply - 24 to 270v AC/DC
- Human Machine Interface - Front panel should have LCD display & function keys for menu access.
- Shall have minimum 4 out put relays / contacts as per following
  - 1 NO - for General trip
  - 2 NO - for annunciation
  - 1 NC for relay hardware supervision.
- Output contact shall have selective auto / manual reset with provision for additional time delay.
- Contact Rating :
  - Trip Contact : Rated Breaking Capacity - 6 A Continuous
  - Annunciation & self supervision Contact :
    - Rated Breaking Capacity - 2 A Continuous
  - Max breaking capacity for CB Trip :
    - 1250 VA / 150 W Resistive
    - 500 VA / 90 W Inductive

**TECHNICAL PERAMETERS FOR CT CIRCUIT :**

- a. Rating: 1A , 50 Hz  $\pm 2.5$  Hz

- b. Thermal withstand capacity :
  - i. For 1 sec – 100 x In
  - ii. For 10 Sec – 20 x In
  - iii. For continuous duty – 4 x In
- c. Rated Burden : 0.2 VA or less

**AMBIENT SERVICE TEMPERATURE RANGE & HUMIDITY:**

- 1. For storage: - 40 °C to + 85 ° C
- 2. For operation:- 20 °C to + 70 °C
- 3. Relative humidity – 95 % at 40 °C for 56 days

U.G.V.C.L., CIRCLE OFFICE, PALANPUR

**GENERAL CONDITIONS:-**

**1. Earnest Money Deposit:-**

- A. Earnest Money Deposit 1% of the estimated cost or minimum Rs.1000/- 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 favor of UGVCL in which cash receipt shall be attached with tender invariably.
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**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. Sales Taxes and VAT:-**

Sale Tax Registration No. and Date & VAT Registration No. and Date must be mentioned in tender.

**5. Jurisdiction:-**

Any dispute of difference arising under this connection with contract shall be subject to the exclusive jurisdiction of Palanpur (N.G.)

**6. 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.

**7. General:-**

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- 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.

**8. 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.

**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.

**Signature of Tenderer with  
Rubber Stamp**

**Superintending Engineer,  
UGVCL, Circle Office, PALANPUR.**