

Office of the Executive Engineer,  
Elect, Dept., Div-VII (O & M)  
Curchorem-Goa 403 706

**BY SPEED POST/HAND DELIVERY**

No.EE/Div-VII/Tech-2/Quot-20 (18-19)/2605/2018-19

Dated: 21/08/2018

Sub: - Quotation for supply of 11KV Outdoor type oil cooled combined C.T.P.T. unit having Single CT Ratio 3 x 25/5Amps and PT Ratio 3x 11KV/110V suitable for 3Ph 4 wire metering system.

On Behalf of The Governor of Goa, quotation for the below mentioned work as per the terms and conditions depicted in Annexure-I& II is invited

**QUOTATION**

Sr. No	Description	Unit	Qty.	Rate in figures & words (Rs.)	Amount in figures (Rs.)
1	11KV C.T.P.T. units Single CT Ratio 3 x 25/5 Amps, & PT Ratio 3x 11KV/110V as per enclosed specification at Annexure-III. & as per the approved makes such as GEC Goa/Automatic Electric/ Gyro/Kalpa/Kappa, etc. Acceptance and Routine tests shall be carried out at the manufacturer's works and test reports shall be furnished before supply of materials. The Department reserves the right to witness all the above tests.	No.	01		
<b>TOTAL AMOUNT RS.</b>					
E.M.D. Rs. 1,170 /- (Rupees One Thousand One Hundred Seventy only)					
Last date & time of receipt of quotation: 30/08/2018 upto 10:00hrs.					
Date & time of opening of quotation: 30/08/2018 at 10.30hrs.					
All other Rules & Regulations in force shall be applicable For more details please visit either Goa Govt. State portal or this office on any working day between 14:30 to 17:00hrs					
Makes: Pragati/ GEC /Kalpa /Kappa / KAPCO / CGL					

Sealed quotation alongwith attached Terms and Conditions duly signed & super scribed on the top of envelop as "Quotation for supply of 11KV Outdoor type oil cooled combined C.T.P.T. unit having Single CT Ratio 3 x 25/5Amps and PT Ratio 3x 11KV/110V suitable for 3ph 4 wire metering system". should be inserted in the quotation box kept at office of the Executive Engineer, Elect, Dept., Div-VII (O & M) Curchorem before Last date & time of receipt of quotation.

Name:

Signature:

Stamp of the Contractor:

Encl: As above

Sd/-

EXECUTIVE ENGINEER-VII.

To,

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**Copy to:-**

- 1) The Chief Electrical Engineer, Vidyut Bhavan, 3<sup>rd</sup> Floor, Panaji Goa. .... For information
- 2) The Superintending Engineer, Elect. Dept. Circle-I, Margao.... For information.
- 3) The Executive Engineer, Elect. Dept, Div. No. I/II/III/IV/V/VI/VIII/IX/X/XI/XII/XIII/XIV, XV/XVI/XVII/XVIII Panaji/Margao/Ponda/Bicholim/Mapusa/Tivim/Vasco/Xeldem/Corlim/Verna/Patto Plaza Panaji.....For information.
- 4) The Divisional Accountant, Accounts Section, Div-VII, Curchorem....He is requested to be Present on the day of opening.
- 5) The Sub-Divisional Engineer, Elect. Sub-Div-III, Sanguem.
- 6) The Director of Information & Technology, IT HUB, 2nd floor, Altinho, Panaji-Goa ....With a request to publish the quotation called by this office for Quotation for supply of 11KV Outdoor type oil cooled combined C.T.P.T. unit having Single CT Ratio 3 x 25/5Amps and PT Ratio 3x11KV/110V suitable for 3ph 4 wire metering system".\_on Goa Govt. State portal by 24/08/2018. (E-mail sent to [stateportal.goa@nic.in](mailto:stateportal.goa@nic.in))

BIDDING SCHEDULE

Name of Work: - Supply of 11KV Outdoor type oil cooled combined C.T.P.T. units having Single CT Ratio 3 x 25/5Amps and PT Ratio 3x 11KV/110V suitable for 3ph 4 wire metering system.

Sr.No.	Description	Qty	Rate in words & figures	Amount in figures
1	11KV Outdoor type oil cooled combined C.T.P.T. units having Single CT Ratio 3 x 25/5Amps and PT Ratio 3x 11KV/110V suitable for 3ph 4 wire metering system as per Technical Specifications mentioned in Annexure-III & as per the Terms & Conditions mentioned in Annexure-I & II.	01 No.		
Total Amount in Rs.				
( Rupees				)

EXECUTIVE ENGINEER  
ELECT DIVISION-VII CURCHOREM

Name of the Contractor:

Signature of the Contractor:

Seal of the Contractor:

Address of the Contractor:

Date:

ANNEXURE-I  
TERMS & CONDITIONS

1. RATES: - The Rates quoted should be firm.
2. TAXES & DUTIES: - The rates quoted shall be inclusive of all applicable taxes. The landing cost shall include the following:
  - a]. Cost of material / equipment
  - b] All applicable taxes and duties
  - c] Packing, forwarding, freight, clearing charges etc.
  - d] Cost of packets, containers, drums, cases, etc.
  - e] Insurance and other similar charge
  - f] Freight charges upto destination and transportation charges upto the site or work place, loading, unloading, etc.
  - g] All incidentals up to testing commissioning, including storage, watch & ward, etc.
3. VALIDITY: - The Rates quoted should be valid for a period of 30days from the date of opening of the quotation.
4. COMPLETION PERIOD: The supply should be completed within a period of 30 days from the date of issue of firm supply order.
5. EARNEST MONEY DEPOSIT: - You have to pay an amount of Rs. 1170/- towards EARNEST MONEY DEPOSIT (Rs. 500/- incase of enterprises those are registered under SSI) by demand draft drawn from any scheduled bank guaranteed by Reserve Bank of India payable at Curchorem, in favour of the "Executive Engineer, Div-VII, Elect. Dept, Curchorem Goa" in a separate envelope, sealed and superscribed as "EMD FOR QUOTATION"(ENVELOPE-A). (Quotation No, & detail of Quotation to be specified) EMD shall be in the form of Demand Draft drawn in the name of The Executive Engineer, Elect, Division VII, Curchorem, on any schedule Bank guaranteed by Reserve Bank of India and made payable at par on any Branches in Goa. EMD payment by cash, cheque, fixed & short term deposit shall not be entertained. Quotation unaccompanied by EMD as above will be summarily rejected. The quotations for the work shall remain open for a period of 30 days from the opening of quotations. The Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50 % of the earnest money if any bidder withdraws his quotation before that date or makes any modifications in terms & conditions which are not acceptable to the Department, and to forfeit the whole of the earnest money if the bidder, whose quotation is accepted, fails to commence the work specified in NIQ (Along with changes in scope) in the prescribed time or abandons the work before its completion.

The 2nd envelope superscribed as "Financial bid" (Quotation No, & detail of Quotation to be specified) shall contain Price bid / Bidding schedule, duly signed by the tenderer on each page over their official rubber stamp, on all pages alongwith the financial bid and other documents (ENVELOPE-B).

The 3rd cover (ENVELOPE-C) pertaining to the tender shall be superscribed as detailed in quotation shall contain the other two envelopes (Envelope-A & Envelope-B) superscribed "EMD for quotation" and "Financial bid". Name of the tenderer shall be written on the left hand side corner of the envelopes
6. PERFORMANCE SECURITY: - In case of acceptance of the offer the performance security of 5 % of the order value shall be deposited(exempted in case of enterprises those are registered under SSI) with this office within 15 days of acceptance letter and the same shall be refundable on completion of the work and recording of the work completion certificate.
7. SECURITY DEPOSIT: - Security deposit amounting to 2.5% of the ordered value will have to be paid (exempted in case of enterprises those are registered under SSI) or the same will be deducted from the bills adjusting the EMD paid. The security deposit will be retained in this office till expiry of guarantee period and thereafter the same will be refunded against an application in Form-28, subject to the condition that no defects are noticed and the service is entire satisfaction to the Engineer-in-charge and on recovery of any amount due to the Govt.
8. PAYMENT: - Payment will be made to you through ECS mode by Directorate of Accounts Panaji only after completion of supply in full and in good condition conforming to our specifications & acceptance by Sub-Divisional Engineer Elect. Sub Div-III, Sanguem. No additional payment will be made towards all types of taxes and duties mentioned as above in condition no. 2 all of which are deemed to have been included in the quoted rates whether expressively specified or not. The bill in quadruplicate duly pre-receipted and signed may be furnished to the concerned Sub-Divisional Engineer Elect. Sub Div-III, Sanguem under intimation to this office for arranging payments.
9. DELIVERY OF MATERIALS: - The materials shall be delivered on or before the stipulated date as per the work order at Elect. Sub Div-III, Sanguem office.
10. CONTRACT CONDITON: - Orders will be governed by the conditions of P.W.D. agreement Form No.9.
11. THE RIGHT TO REJECT: - The right to reject any or all the quotations, without assigning any reasons, shall rest with the undersigned.
12. DATE OF RECEIPT & OPENING OF QUOTATION: - The quotation will be received up to 10.00 hours on 30/08/2018 & it will be opened at 10.30 hours on the same day.

EXECUTIVE ENGINEER,  
DIVISION-VII, CURCHOREM

ANNEXURE - II  
GENERAL TERMS & CONDITIONS

1. In case the contractor comes across any incorrect/missed out punctuations, typographical errors in spelling, leading incorrect impression or no meaning to the text, then they are advised to get the same clarified from the department. The interpretation of the Engineer-in-charge, in such cases shall be final.
2. The rates quoted by the contractor shall be firm, whether he has actually inspected the site or not. Any claim on the veracities of the site conditions at a later stage shall not be entertained.
3. The offer shall be valid for a minimum period of 30 days from the date of opening of the quotation.
4. The whole contract shall be governed by the agreement under CPWD form 09 for the contract for supply of materials.

1. STANDARD:

Unless otherwise specified the supply shall comply in all respects with the requirements of the specifications attached with the quotation amended up to date and any revisions thereof that may be issued during the currency of the contract.

2. COMPLIANCE WITH THE REGULATIONS:

The materials supplied shall be in accordance with I.S. Specifications as mentioned in Annexure-III as amended up to date and all revision thereof that may be issued during the currency of the contract. The Supply shall also conform to Electricity Department rules/procedures.

3. PAYMENTS:

No advance payment shall be made along with the order. No payment will be made for the purpose of storing of the materials, transportation, freight and insurance charges, taxes and duty, etc. – all of which are deemed to have been included in the quoted rates whether expressly specified or not. Final payment will be done only after completion of the supply by the Contractor and submission of detailed reports in triplicate.

Deductions: - The work contract tax and income tax shall be deducted at source from the eligible payments to the contractor as applicable from the bill. Department shall issue necessary TDS certificate to the contractor.

4. AGREEMENT AND GOVERNMENTING CONDITIONS:

The contractor whose offer is accepted will have to enter in to an agreement in the C.P.W.D. Form-9.

5. DEVIATIONS:

Any deviation to these specifications if found necessary by the tenderer shall clearly be set forth in the separate schedule giving valid basis for such deviations. The advantage claimed if any to such deviation shall be clearly indicated.

## 6. GUARANTEE:-

6.1) The contractor shall warrant that the materials will be new and in accordance with the specification, will be free from defects in materials & workmanship. The contractor shall furnish performance guarantee for a period of 12 calendar months (Guarantee period) from the date of supply of materials. Any defects in failure observed during the period of guarantee will be the duty of the contractor to attend and rectify it on priority basis when informed or noticed at his own cost.

## 6. COMPLETION PERIOD:

The time allowed for completion of supply under this contract shall be of 30 days from the date of firm order.

7.1. Compensation for failure to supply the materials within stipulated time period. The time allowed for supply of materials as entered in the quotation shall be strictly observed by the contractor and shall be deemed to be of essence of the contract on the part of the contractor and shall be reckoned from the date of firm order. Delay in the supply of the materials as per clauses of CPWD 8 shall attract the compensation/penalty @1% of the value of work order per day for every day the supply remains uncompleted or unfurnished after the stipulated completion date put to subject to total compensation not exceeding 10% on total cost of work as per work order.

## 8. SPECIAL CONDITION:

Micro and Small Enterprises permanently registered or acknowledged with Enterprises Memorandum II by the Directorate of Industry, Trade & Commerce, Goa also under Udyog Aadhaar Memorandum by the Ministry of Micro & Medium Enterprises Government of India, shall be given special treatment.

Micro and Small enterprises shall be allowed to match to lowest tender price floated by non-Small Scale Units provided its quoted price is within 15% of lowest quoted price floated by Non- Micro and Small Enterprises;

In case of more than one Micro or Small Enterprises, falling within the range, the lowest one shall be preferred.

For the purpose of availing benefit under Preferential Purchase Incentive for SSI Scheme, the Micro and Small Enterprises shall be required to match standard of quality as required by the State Government Department

Earnest money shall be required to be deposited and the same shall be to the maximum of Rs.500/-. No other security deposit is required in respect to Micro and Small Enterprises permanently registered or acknowledge with Enterprises Memorandum II by the Directorate of Industry, Trade & Commerce, Goa also registered under Udyog Aadhaar Memorandum by the Ministry of Micro & Medium Enterprises Government of India,

Only those Micro and Small Scale Enterprises having turnover not exceeding Rs. 6 crores per annum for the last proceeding 3 financial years and permanently registered or acknowledge with Entrepreneurs Memorandum II by the Directorate of Industries, Trade and Commerce also registered under Udyog Aadhaar Memorandum by the Ministry of Micro & Medium Enterprises Government of India, shall be eligible for the benefit under this Scheme

EXECUTIVE ENGINEER  
DIVISION VII, CURCHOREM.

SPECIFICATIONS FOR 11KV C.T.P.T. UNITS SINGLE CT RATIO 3 X 25/5 AMPS & PT RATIO 3X 11KV/110V

ANNEXURE-III 11KV CTPT

**1 CLIMATIC CONDITIONS:-**

i)	Peak ambient temperature in shade	45° C
ii)	Maximum daily average ambient temperature	40° C
iii)	Maximum yearly average temperature	32° C
iv)	Minimum ambient temperature	10° C
v)	Maximum relative humidity	90 % NC
vi)	Average number of thunder storms days per annum	33
vii)	Average number of rainy days per annum	90(approx.)
viii)	Average annual rainfall	4000mm
ix)	Minimum wind pressure	100 kgs/sq.m
x)	Altitude not exceeding	1000 mts

- 1) Daily average and yearly average temperature given in this annexure are as per site conditions whereas the figures in IS: 2705 (Pt-I) 81 as amended upto date are General Standard ambient conditions.
- 2) The CTPT unit shall be suitable for continuous operation in the above climatic conditions prevailing in Goa wherein almost six months goes in heavy rain.
- 3) The CTPT unit shall be suitable for outdoor use and will be pole mounting type. The CTPT unit should be filled with first filling of oil as per IS: 335/72 (with amnd. No.1) and will be complete with outdoor type porcelain bushings.

Separate HT terminals shall be brought out for current and voltage transformers through 5 Nos. of 12 KV/250 Amps bushings conforming to IS: 3347. The 11 KV HT terminal bushings shall have a creepage distance of 320mm as per IS: 2099/73 with amdt. 1 (table 3).

The following fittings shall be provided to the unit:

- |                                 |        |
|---------------------------------|--------|
| 3.1) Secondary terminal box     | 1 No   |
| 3.2) Oil drain plug/valve       | 1 No   |
| 3.3) Lifting lugs               | 2 Nos. |
| 3.4) Earthing terminal          | 2 Nos. |
| 3.5) Mounting angles            | 2 Nos. |
| 3.6) Oil level window indicator | 1 No   |
| 3.7) Silica gel breather        | 1 No.  |

The main tank for the unit shall be of adequate size to take care of the expansion of the oil and positive pressure developed in the tank.

The best quality gasket shall be used to ensure proper sealing effect and to avoid ingress of moisture. The secondary terminals shall be enclosed in sealed terminals box by employing rubber gasket for cover with extra protection cover for prevention of deterioration of seal from atmospheric conditions and tampering. The terminals shall be made of best quality brass material with nuts and brass flat washers. There shall be two holes one for Entry of 4core copper 2.5 sq.mm armoured cable for CTs and one for entry of 3 core copper 1.5 sq.mm armoured cable with suitable glands at bottom of the secondary terminal cover. The CTPT unit shall be manufactured by using high grade cold rolled oriented steal lamination having low iron loses.

The primary neutral lead of the PT will be left isolated inside the tank. The secondary neutral of the PT should be brought out fully insulated and shall be accessible on opening the inspection cover.

The potential and the current transformers shall conform to IS: 3156(Part-1 & 2)/78 and IS: 2705 (Part-1 to 2)/81 as amended upto date respectively.

However, brief technical particulars of the current and potential transformers are furnished below:

**TECHNICAL PARTICULARS:**  
**TYPE: OIL IMMERSED, OUTDOOR**

**8.1) POTENTIAL TRANSFORMER**

i)	Ratio (Strike out one ratio)	11000/110 Volts
ii)	Class of accuracy	1
iii)	Rated burden	100 VA per phase
iv)	Voltage factor	1.2 times continuous
v)	System voltage	11 KV 3 phase 3 wire
vi)	Frequency	50 HZ
vii)	Maximum system voltage	12 KV
viii)	One minute power frequency Test on primary to Earth	28 KV RMS
ix)	One minute power frequency test on secondary winding to Earth	3 KV RMS
x)	Lightning impulse withstand voltage test	75 KV PEAK
xi)	Connections	Star-star(Y-Y-0)

**8.2) CURRENT TRANSFORMER**

(i)	Ratio	25/5 Amps
ii)	Rated burden	15 VA
iii)	Class of accuracy as per IS: 2705	1
iv)	System voltage	11 KV
v)	Frequency	50 HZ
vi)	Maximum system voltage	12 KV
vii)	Short time current	4.5 KA for 1 sec
viii)	One minute power frequency test on primary Winding to Earth+LV	28 KV
ix)	One minute power frequency test on secondary Winding to Earth+LV	3 KV
x)	Lightning impulse withstand Voltage	75 KV
xi)	Maximum rise of temperature	As per IS: 2705

The name plate on each set should be printed with ‘ELECTRICITY DEPARTMENT, GOVERNMENT OF GOA’.

Identification Tag: Other than normal name plate fitted on the body of the CTPT. A number shall be punched /manually engraved /machine engraved on the body of the tank, below the top edge, HV side the space of the number from the top edge will be 3 inches, the height of the number shall be min 10mm, the punching/engraving depth shall not be less than 0.25mm, if the punching effects the bulging of tank a piece of MS metal plate 3mm thick 25mm width and length 10mm more than length of Number, the plate shall be spot welded or welded directly on body, no riveting will be allowed. The naming shall be XX-T-ZZ-MM-YY-RRR-SSSS, XX stands for Div, T for Tender or Q for Quotation, ZZ The tender number (i.e. Div II /Ten08/04-05) than XX 02, ZZ will be 08, MM stands for the month of supply, YY stands for Year of Supply, RRR (i.e. 50/5A 050) stands for Primary Current and SSSS stands for Serial No of Manufacturer starts from 0001.

The bidder have to stick the identification tag in such a way that it should not be removed easily with common tool like cutter, screw driver, and if removed than void identification should indicate.

The current and potential transformer shall be copper wound (Synthetic enameled high conductivity annealed round copper wire conforming to IS: 613 for enameled round winding wire shall be used.

2) TESTING:

All the CTPT units supplied will be subjected to acceptance test in our MRT testing laboratory Margao-Goa before acceptance.

Acceptance and Routine tests shall be carried out at the manufacturer’s works and test reports shall be furnished before supply of materials.

The Department reserves the right to witness all the required tests.