

MORMUGAO PORT TRUST
ENGINEERING MECHANICAL DEPARTMENT

Quotation no. CME/XEN(E)/PROJ2/07



**An ISO 9001 : 2008 Port
ISPS CODE Compliant**

QUOTATION FOR
“FABRICATION AND SUPPLY OF CRCA PANEL ENCLOSURES”

Due at 11.00 AM on 21.04.2018

Website : www.mptgoa.com

MORMUGAO PORT TRUST
ENGINEERING MECHANICAL DEPARTMENT

Quotations are invited in a sealed cover from authorized firms duly super scribed as
QUOTATION FOR “FABRICATION AND SUPPLY OF CRCA PANEL ENCLOSURES”.

Details about Quotation:

Quotation invited by	CHIEF MECHANICAL ENGINEER, MORMUGAO PORT TRUST
Quotation No.	CME/XEN(E)/PROJ2/07
Name of Work	FABRICATION AND SUPPLY OF CRCA PANEL ENCLOSURES
Security Deposit	10 % of the contract value shall be payable by the successful bidder after placement of work order and shall consist of two parts. Two parts: (i) 5% on contract value – to be furnished within 10 days of placement of order/LOA. (ii) 5% retention money deducted from the running bills.
Completion Period	The work should be completed within 30 days from the date of receipt of the work order/LOA.
Liquidated Damages	For delay in supply/work Liquidated Damages, equivalent to 1% of the total contract value/per week or part thereof subject to maximum 10% are liable to be deducted from any moneys due or become due to the Contractor
Payment terms	100% payment shall be made within 15 days after satisfactory completion of work on producing invoice complete in all respect. The contractor shall furnish their bank account number PAN card, MICR number Name of the Branch along with Bill for arranging payment made through E.C.S. by the Trust.
Bid Validity	60 Days from the date of opening of the quotation.
Date of submission of bids	21.04.2018 till 11:00 Hrs.
Date of Opening of bids	21.04.2018 at 11:30 Hrs
Address for communication and submission of bid:	Executive Engineer (E-P), Engineering Mechanical Dept., Mormugao Port Trust, Electrical project section, 2 nd floor Mormugao, Goa – 403804.
Contact Details	Phone :0832-2594260 Email : xenpw.mgpt@gmail.com
Website	www.mptgoa.com

CHIEF MECHANICAL ENGINEER

TECHNICAL SPECIFICATION

1.0. GENERAL

Mormugao Port Trust invites the quotations for the work of “**FABRICATION AND SUPPLY OF CRCA PANEL ENCLOSURES**”.

2.0 SCOPE OF WORK:

2.1. Fabrication and supply of panel enclosures of following equipments which shall be floor mounted, free standing design, fabricated from CRCA Steel sheets of minimum 2.0 mm thickness and powder coated. The panel enclosures shall be fabricated with degree of Ingress protections **IP65**.

- a) 11KV Ring Mains Unit.
- b) 11 KV HT VCB panel.
- c) Compact substation(CSS) (only HT and LT compartment shall be IP65 & Transformer compartment shall be IP23)

2.2 Fabrication and supply of panel enclosures of following equipments which shall be floor mounted, free standing design, fabricated from CRCA Steel sheets of minimum 2.0 mm thickness and powder coated. The panel enclosures shall be designed and fabricated with degree of Ingress protections **IP54**.

- a) 11KV Ring Mains Unit.
- b) Compact substation(CSS) (only HT and LT compartment shall be IP54 & Transformer compartment shall be IP23)

2.3. Fabrication and supply of panel enclosures of 11KV HT VCB panel, which shall be floor mounted, free standing design, fabricated from CRCA Steel sheets of minimum 2.0 mm thickness and powder coated. The panel enclosures shall be designed and fabricated with degree of Ingress protections **IP4X**.

3.0 TECHNICAL SPECIFICATIONS:-

The work involves fabrication and supply of **only the panel enclosures** of following equipments: (Installation of internal switchgear and wiring will be done by Port. Instruments and pilot lamps will be supplied by Port for making cut-outs.)

- a) **Enclosures with degree of Ingress protection IP65 for:**
 - i) **11KV Ring Mains Unit**

SF6 Ring Mains Unit, 11KV, comprising of 1 no. 11KV, 630Amps, 3pole Vacuum Circuit Breaker and 2 nos. 11KV, 3 pole, manually operated Load Break Switches, SF6 insulated. The Bidder shall design the enclosure with IP65 degree of protection for RMU and submit the offer.

ii) **1000KVA Compact Substation**

11KV/440V, 1000KVA Compact Substation(CSS), outdoor type, consisting of 1 no. 11KV, 630Amps, 25KA 3sec. Isolator, 1 no. 11 KV, 630A, 500 MVA, 25KA, 3 Phase 50HZ SF6 encapsulated Vacuum circuit breaker with standard accessories and 1no. Transformer compartment with 11 KV/433V, LV compartment comprising of 1 No. 415V, 1600A, 4 pole, 50KA, ACB and 1 No.300 KVAR, APFC unit with standard accessories. The ingress protection for HT and LT compartment of the panel shall be IP65 and for Transformer compartment shall be IP23. The dimensions and design of the panel shall be as given at **Annexure -1**.

iii) **HT VCB panel,**

11KV, 3 phase, 630A, 25KVA. The dimensions and design of the panel shall be as given at **Annexure -2**.

b) Enclosures with degree of Ingress protection IP54 for:

i) **11KV Ring Mains Unit**

SF6 Ring Mains Unit, 11KV, comprising of 1 no. 11KV, 630Amps, 3pole Vacuum Circuit Breaker and 2 nos. 11KV, 3 pole, manually operated Load Break Switches, SF6 insulated. The dimensions and design of the panel shall be as given at **Annexure -3**.

ii) **1000KVA Compact Substation**

11KV/440V, 1000KVA Compact Substation(CSS), outdoor type, consisting of 1 no. 11KV, 630Amps, 25KA 3sec. Isolator, 1 no. 11 KV, 630A, 500 MVA, 25KA, 3 Phase 50HZ SF6 encapsulated Vacuum circuit breaker with standard accessories and 1no. Transformer compartment with 11 KV/433V, LV compartment comprising of 1 No. 415V, 1600A, 4 pole, 50KA, ACB and 1 No.300 KVAR, APFC unit with standard accessories. The ingress protection for HT and LT compartment of the panel shall be IP54 and for Transformer compartment shall be IP23. The dimensions and design of the panel shall be as given at **Annexure -4**.

c) Enclosures with degree of Ingress protection IP4X for:

HT VCB panel, 11KV, 3 phase, 630A, 25KVA. The dimensions and design of the panel shall be as given at **Annexure -5**.

4.0 GENERAL TERMS AND CONDITIONS:

4.1 MINIMUM ELIGIBILITY CRITERIA (MEC)

The manufacturer/contractor shall have experience in fabrication and supply of CRCA panel enclosures during the last seven years. Type test certificates for IP65 and IP 54 enclosure as per annexed drawings or similar type of enclosure shall be submitted along with the offer.

4.2 Validity:

The validity period for the offer shall be 60 days from the date of opening of the quotation.

4.3 Price:

The prices offered shall be firm. Applicable GST on the goods shall be indicated at BOQ.

- a) Part A for supply of panel enclosure with IP 65 degree of protection.
- b) Part B for supply of panel enclosure with IP 54 and IP 4X degree of protection.

4.4 Security deposit:

- i) Security deposit will be payable by the successful bidder after placement of work order and shall consist of two parts:
 - a) The DD of 5% of the contract value rounded off to nearest 100 rupees, shall be submitted within 10 days of issue of Letter of Acceptance/P.O.
 - b) The balance 5 % shall be recovered as Retention Money from the running bills. Thereafter, the total of 10% (DD 5% and 5 % Retention money) shall be returned after completion of Guarantee period of one year.
- ii) The contractor shall furnish the Security Deposit in the form DD from Nationalized/Scheduled Banks in favour of the Financial Advisor & Chief Accounts Officer, MPT, payable at Vasco, Goa within 10 days from the date of issue of Work Order. This Security Deposit shall be converted to Performance Guarantee during the guarantee period.

4.5 Completion Period:

The work should be completed within **30 days** from the date of receipt of the work order/LOA.

4.6 Guarantee Period:

The Contractor shall give the guarantee for a period of **12 months** from the date of taking over of the work. Any defect observed during the guarantee period, the same

shall be replaced by the Contractor, free of cost. However, The Security Deposit shall be converted to Performance Guarantee during the guarantee period.

4.7 Payment Terms:

- i. 100% payment shall be made within **15 days** after satisfactory completion of work on producing invoice complete in all respect.
- ii. A copy of the PAN card, Service Tax Registration no., EPF& ESI shall be furnished.

4.8 Liquidated Damages:

In the event of failure by the contractor to complete the execution of the work within the time stipulated in the contract or by the expiry of any period of extension granted by the Board's terms thereof, the contractor shall pay the Board as Liquidated Damages for delay to complete the work, a sum of 1% of contract price per week or part thereof subject to a maximum of 10% and the Board shall have the power to deduct this amount from the payment of the amounts due to the contractor or from his deposit.

4.9 MPT's right to annul the bidding process:

Notwithstanding anything contained in this tender document, MPT reserves the right to annul the bidding process at any time without any liability or any obligation for such annulment, without assigning any reason.

- The technical specification Schedule 'A' and Schedule of prices and quantities Schedule 'A1' to be read in conjunction to ensure the actual works involved.
- Address for communication and submission of bid: Executive Engineer (E-P), 2nd floor A.O. Bldg, Headland Sada, Engineering Mechanical Dept., Mormugao Port Trust, Mormugao, Goa – 403804. Phone: 0832-2594260.

CHIEF MECHANICAL ENGINEER

SCHEDULE OF PRICES AND QUANTITIES

PART A - Supply of panel enclosure with IP 65 degree of protection.

Sr. No.	Description	Qty	Unit	Unit rate in Rs	Freight charges (Rs.)	Applicable GST (%)	Amount (Rs)
1	Design, Fabricate and supply of panel enclosure with degree of protection IP65 for 11KV, 630 Amps, outdoor type SF6 RMU unit as per the Technical specification at Schedule – A.	1	no				
2	Fabrication and supply of panel enclosure with degree of protection IP65 for indoor HT 11KV VCB, 630A, 3 phase, 50HZ, 25KA as per the technical specification at Schedule- A.	1	no				
3	Fabrication and supply of Compact Substation(CSS) panel enclosure with degree of protection IP65 for HT and LT compartment and IP23 for Transformer compartment for 11/0.433 KV, 1000 KVA, Package Outdoor Sub-Station as per Technical Specification of Schedule 'A'.	1	no				
TOTAL(A)							

(In Words
Rupees _____ only)

Date:

Signature:

Place:

Name:

Address:

Office Seal of firm

PART B - Supply of panel enclosure with IP 54 and IP 4X degree of protection

Sr. No.	Description	Qty	Unit	Unit rate in Rs	Freight charges (Rs.)	Applicable GST (%)	Amount (Rs)
1	Fabricate and supply of panel enclosure with degree of protection IP54 for 11KV, 630 Amps, outdoor type SF6 RMU unit as per the Technical specification at Schedule – A.	1	no				
2	Fabrication and supply of panel enclosure with degree of protection IP4X for indoor HT 11KV VCB, 630A, 3 phase, 50HZ, 25KA as per the technical specification at Schedule- A.	1	no				
3	Fabrication and supply of Compact Substation(CSS) panel enclosure with degree of protection IP54 for HT and LT compartment and IP23 for Transformer compartment for 11/0.433 KV, 1000 KVA, Package Outdoor Sub-Station as per Technical Specification of Schedule 'A'.	1	no				
TOTAL(B)							
TOTAL(A)+TOTAL(B)							

(In Words
Rupees _____ only)

Date:

Signature:

Place:

Name:

Address:

Office Seal of firm