

MORMUGAO PORT TRUST
ENGINEERING MECHANICAL DEPARTMENT

Quotation no.CME/IT/2016/03



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

QUOTATION
FOR
“SUPPLY, INSTALLATION, TESTING AND COMMISSIONING THE
NETWORKFOR IMMIGRATION COUNTERS AT OLD CHLD AND NEW
CRUISE TERMINAL BUILDINGS”

Due at 3.00P.Mon21.11.2016

Website : www.mptgoa.com

MORMUGAO PORT TRUST
ENGINEERING MECHANICAL DEPARTMENT

Quotations are invited in a sealed cover from Experienced firms duly super scribed as
QUOTATION FOR “ SUPPLY, INSTALLATION, TESTING AND COMMISSIONING THE NETWORK FOR IMMIGRATION COUNTERS AT OLD CHLD AND NEW CRUISE TERMINAL BUILDINGS”

Details about Quotation:

Quotation invited by	CHIEF MECHANICAL ENGINEER, MORMUGAO PORT TRUST
Quotation No.	CME/IT/2016/03
Name of Work	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING THE NETWORK FOR IMMIGRATION COUNTERS AT OLD CHLD AND NEW CRUISE TERMINAL BUILDINGS
Document Cost	Rs.500/- in the form of DD from Nationalized/Scheduled Banks in favour of the Financial Advisor & Chief Accounts Officer, MPT, payable at Vasco, Goa to be submitted along with the tender.(Quotation Documents Fee is not refundable) Note: Bidders not paying document Cost before due date and time will be disqualified.
Security Deposit	10 % of the contract value. Two parts: (i) 5% on contract value – to be furnished within 30 days of placement of order/LOA. (ii) 5% retention money deducted from the running bills.
Completion Period	The work should be completed within 4 weeks from the date of receipt of the work order.
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 will 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.
Guarantee Period	6 Months from the date of taking over of the work.
Date of submission of bids	21/11/2016 till 15:00 Hrs.
Date of Opening of bids	21/11/2016 at 15:30 Hrs
Address for communication and submission of bid:	Assistant Executive Engineer , Engineering Mechanical Dept., Mormugao Port Trust, Mormugao, Goa – 403804.
Contact Details	Phone :0832-2594238 ; Email : cmeedp1@gmail.com
Website	www.mptgoa.com

CHIEF MECHANICAL ENGINEER
MORMUGAO PORT TRUST

TECHNICAL SPECIFICATION

1.0. GENERAL

Mormugao Port Trust invites a quotation for the work of “SUPPLY, INSTALLATION, TESTING AND COMMISSIONING THE NETWORK FOR IMMIGRATION COUNTERS AT OLD CHLD AND NEW CRUISE TERMINAL BUILDINGS”.

2.0. SCOPE OF WORK

2.1The scope of work involves extension of Computer network and Power Supply to locations within the Old CHLD building and New Cruise Terminal

2.2The Electrical works involves extension of power supply from the existing Main Panel (ground floor Old CHLD building) to the DB-1, wiring up of 2 nos. 5 KVA UPS and its output changeover switch and providing 6A and 15 A power points at the various location within the Old CHLD Building and Cruise Terminal.

2.3DB-1 and DB-2 consisting of MCBs as described in the price schedule shall be supplied and installed in the server room on first floor of Old CHLD building. DB-3 consisting of MCBs as described in the price schedule shall be supplied and installed at the Cruise Terminal Building. *All the MCBs should have “C Trip Curve”.*

2.4 63A 2 pole change over switch shall be supplied and installed to function as the selector switch between the outputs of UPS 1 and 2.

2.5Each counter will have UPS as well as Non UPS points. For each location the two different circuits have to be drawn from DB to the items described at 9-12. For example for item no. 9 out of 4 sockets, 2 sockets has to be on one circuit and other two on different circuit. These circuits shall be combine/looped separately to form one circuit to the DBs. Number of points on the circuit shall not exceed 12.

2.6The wires shall run from the DBs to electrical points through capping casing on the wall as well as through the floor. The wires have to be laid through the alkathine pipe to the individual counter wherever required. Tiles will have to be cut at the center of the counter and the exact location will be finalised in coordination with the Civil engineering Department.

2.7The Network related works include the Supply and Installation of I/O ports, its wiring at Old CHLD Building and Cruise Terminal, Supply and laying of Multimode OFC from

the Old CHLD Building to Cruise Terminal its termination into the Rack, supply and installation of media converter and providing uplink to the switch which is installed at the above said location.

2.8Laying of OFC underground from Old CHLD building to New Cruise Terminal by road cutting and partly on wall. The OFC cable shall be laid in the HDPE pipe all along its route. The pipe having the OFC shall be laid at the bottom of the trench after putting layer of sand cushion below and then 10cm layer of sand above the pipe covering the cable. Wherever there is road crossing trench depth shall be 1.2 meters and cable shall be laid in the GI pipe. There shall be no sharp bend of cable. The concrete route marker shall be provided at the interval of 10meters inscribing 'MPT OFC. The OFC shall be laid in HDPE pipe by cutting tiles to bring it to the network rack.

2.9All the cores of the OFC shall be terminated in the rack LIU by splicing to suitable pigtailed.

2.10 The contractor shall supply and install the Media converter, 24 port RJ45 patch panels LC-LC OFC patch cord in 12U network rack and any other material required to commission the same.

2.11 The CAT-6 cable shall be laid through the capping and casing along the wall and wherever required through the HDPE pipe by cutting tiles and re-cementing.

2.12 There will be 6 immigration counters at Old CHLD building and 2 at the new cruise terminal. Each counter will be divided into two i.e two immigration officials will be sitting at each counter. Each official requires 2 nos. LAN points, 4 nos UPS supply points and 2 nos non-UPS power supply points.

2.13 Providing LAN points on immigration counters having wooden base by laying different lengths of CAT6 cable through HDPE one inch pipes after floor tile cutting and re-cementing(after laying of cables).

It is to be noted that the HDPE and alkathine pipes will be laid side by side (after tile cutting) with sand cushion separation of about 1cm and then only re-cementing to be done.

2.14 Excavation preferably to be carried out manually to avoid any disruption of existing cables.

3.0. MAKES/TECHNICAL SPECIFICATIONS

1. OPTICAL FIBER CABLE

The supplied OFC shall be 6 core multimode armoured OFC for outdoor use.

MAKE: D-LINK or equivalent

2. NETWORK RACK/CABINET

Size: 12U

MAKE: D-LINK, SCHNEIDER

3. SINGLE PORT NETWORK I/O BOX

Shall be Modular type suitable for RJ-45 connector

MAKE: D-LINK, I-BALL

4. CAT 6 CABLE(UTP)

MAKE: FINOLEX, D-LINK

5. MEDIA CONVERTER

Suitable for Multimode OFC and with LC connector.

Make: D-LINK, TP-LINK, DIGISOL

6. DISTRIBUTION BOARD

Make:Legrand/Schneider/Merlin Gerin

7. MCB

All the MCB shall be C trip Curve

Legrand, Havells , ABB, Siemens, L&T

8. FLEXIBLE PVC CABLE

Make: Finolex,Havells,Polycab

9. Wires (4, 2.5,1.5 sqmm)

Copper multistranded, insulated FR cable.

Make: Anchor, FinolexPower Plast,

3.1. INSTALLATION AND COMMISSIONING

The network for Immigration Counters at Old CHLD and New Cruise Terminal Buildings shall be installed and commissioned using necessary items with required instruments and tools which are to be supplied by the contractor at the location pointed out by Port Trust Engineer.

All the materials required for the installation and commissioning at site including the material for civil works shall be supplied by the Contractor.

4.0. GENERAL TERMS AND CONDITIONS

4.1. Validity:

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

4.2. Price:

The offered rates shall be inclusive of all taxes and duties. Service Tax shall be paid as applicable. If, any new tax will be imposed by State/Central Govt. and same will be reimbursed on producing documentary proof

4.3. Security deposit:

i) Security deposit 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

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 6 months.

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.

4.4. Completion Period:

The entire work shall be completed within **4 weeks** from the date of receipt of work order.

4.5. Guarantee Period:

- iii) The Contractor shall give the guarantee for a period of **6 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.

4.6. Payment Terms:

- i. 100% payment will be made within **15 days** after satisfactory completion of work on producing invoice complete in all respect.
- ii. The contractor shall furnish their bank account details for the payment through ECS by the Trust. A copy of the PAN card, Service Tax Registration no., EPF& ESI shall be furnished. MICR number Name of the Branch along with Bill for arranging payment made through E.C.S. by the Trust.

4.7. 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 0.5% of contract price per week or part thereof subject to a maximum of 5% 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.

4.8. Other terms and conditions

- i) All tools and tackles shall be arranged by the Contractor at their own cost.
- ii) The Bidders are advised to visit the site and get acquainted regarding the nature of the work involved at site conditions before quoting the rate.
- iii) The technical specification Schedule 'A' and Schedule of prices and quantities Schedule 'A1' to be read in conjunction to ensure the actual supply and works involved.
- iv) Necessary Entry passes shall be obtained by the Contractor at their own cost with the approval of Port Officials.
- v) The Trust will not be responsible for any loss or damage of the men/materials/ tools/plants engaged by the firm during the work at site or transportation.
- vi) The Contractor shall take utmost care during the execution of the work, if any damage to Port property, the cost of the damage shall be deducted from the Contractor's bill.

vii) The power supply shall be provided by the Port free cost for execution of the work, however, the Contractor take power supply from the nearest source by their own arrangement.

viii)Address for communication and submission of bid:

Asst.Executive Engineer (EDP),1st floor A.O. Bldg, Headland Sada, Engineering Mechanical Dept., Mormugao Port Trust, Mormugao, Goa – 403804. Phone: 0832-2594238 and Mobile– 9823206606.

xi) Further amendments if any, visit our website www.mptgoa.com

CHIEF MECHANICAL ENGINEER

SCHEDULE – “A1”

PRICE SCHEDULE

Sr No	Description	Unit	Qty	Unit Rate in (Rs.)		Amount in (Rs.)
				In fig.	In words	
1	Supply 6 core Multimode OFC as per Technical specifications	Meter	170			
2	Excavation and laying of OFC in soil at a depth of .6meters and backfilling	Meter	120			
3	Laying of OFC in 2" B class GI Pipe across the road and clamping on the wall	Meter	50			
4	Floor tile cutting and laying of CAT-6 cable and OFC through 40mm HDPE pipe.	Meter	100			
5	Supply and installation of 12U Network Cabinet/Rack					
	(i) Supply	No	1			
	(ii) Installation	No	1			
6	Supply and Installation of Rack Line Interfacing Unit (indoor type LIU) with LC adaptor					
	Supply	No	2			
	Installation	No	2			
7	Supply and installation of Media Converter					
	Supply	No	2			
	Installation	No	2			
8	Supply and installation Pair of LC-LC OFC Patch cord(1.5mtrs)					
	Supply	No	2			
	Installation	No	2			

9	Supply and installation of Pigtails suitable for LC type terminal					
	(i) Supply	No	12			
	Installation	No	12			
10	Supply of installation of 24 port RJ45 patch panel including punching of cable.					
	(i) Supply	No	4			
	(ii) Installation	No	4			
11	Supply and installation of CAT-6 patch cord patch panel to network switch					
	(i) Supply	No.	96			
	(ii) Installation	No.	96			
12	Splicing of OFC	No	12			
13	Supply and installation of single port Network I/O box with surface box, faceplate and keystone including punching of keystone.					
	(i) Supply	No	48			
	(ii) Installation	No	48			
14	Supply and Wiring of network point with UTP CAT 6 cable in 3/4" capping casing from the network switch to individual network I/Os.					
	(i) Supply	Meter	300			
	(ii) Wiring	Meter	300			
15	Supply and laying of 10sq.mm X 4C flexible copper PVC insulated cable for three phase and neutral and and 4sq.mm X 1C copper insulated wires for earthing of POWER PLAST, ANCHOR or FINOLEX make in white colour PVC casing capping of suitable size complete with all accessories from Main panel to DB-1.					
	(i) Supply	Meter	40			
	(ii) Installation	Meter	40			

16	Supply and installation of DB-1 consisting of TPN 12 way DB of Legrand/Schneider/Merlin Gerin makes with wiring of incoming Cable and outgoing circuits including supply and installation of MCB's 63A 4P MCB - 1no. 63A 2P MCB-2 no. 16A 1P MCB- 4					
	(i) Supply	No.	1			
	(ii) Installation	No.	1			
17	Supply and installation of DB-2 consisting of SPN 8 way DB of Legrand/Schneider/Merlin Gerin makes with wiring of incoming Cable and outgoing circuits including supply and installation of MCB's 32A 2P MCB - 1no. 16A 1P MCB- 5					
	(i) Supply	No.	1			
	(ii) Installation	No.	1			
18	Supply and installation of DB-3 at cruise terminal consisting of SPN 8 way DB of Legrand/Schneider/Merlin Gerin makes with wiring of incoming Cable and outgoing circuits including supply and installation of MCB's 63A 2P MCB - 1no. 32A 2P MCB - 1no. 10A 1P MCB- 4 no.					
	(i) Supply	No.	1			
	(ii) Installation	No.	1			
19	Supply installation and wiring of 2P 63Amps UPS to UPS Change over switch for the UPS outputs with 2x10sqmm wire					
	(i) Supply	No.	1			
	(ii) Installation	No.	1			
20	Supply and laying of 10sq.mm X 2C and 4sq.mm X 1C copper insulated FR wires of POWER PLAST,ANCHOR or FINOLEX make in white colour PVC casing capping complete with all accessories from A)DB-1 to UPS-1, UPS-2. B) UPS-1, UPS-2 to Change over					

	switch C) Change over switch to DB-2 D) DB-3 to UPS at Cruise terminal					
	(i) Supply	Meter	40			
	(ii) Wiring	Meter	40			
21	Supply and laying of 2.5sq.mm X 2C and 1.5 sq.mm X 1C copper insulated FR wires of POWER PLAST,ANCHOR or FINOLEX make in white colour PVC casing capping complete with all accessories from DB-2,DB-3 to UPS points and from DB-1, DB-3 to Raw points					
	(i) Supply	Meter	160			
	(ii) wiring	Meter	160			
22	Supply and laying of 2.5sq.mm X 2C and 1.5 sq.mm X 1C copper insulated FR wires of POWER PLAST,ANCHOR or FINOLEX make in Alkathine pipe by cutting tiles and recementing from DB-2 to UPS points and from DB-1 to Raw points					
	(i) Supply	Meter	240			
	(ii) wiring	Meter	240			
23	Supply, fixing, connection of wires, testing of UPS power point with 4 nos. of 6 A, socket and control by 4 nos. 6 A switch along with top cover plate, PVC back box suitable to modular plate and other necessary accessories to complete the installation as per standard practice					
	(i) Supply	No.	12			
	(ii) Installation	No.	12			
24	Supply, fixing, connection of wires, testing of Non UPS power point with 2 nos of 6 A, socket and control by 2 nos 6 A switch along with top cover plate, PVC back box suitable to modular plate and other necessary accessories to complete the installation as per standard practice					
	(i) Supply	No.	16			
	(ii) Installation	No.	16			

25	Supply, fixing, connection of wires, testing of UPS/Non UPS power point for IP phones with 1 no of 6 A, socket and control by 1 no 6 A switch along with top cover plate, PVC back box suitable to modular plate and other necessary accessories to complete the installation as per standard practice					
	(i) Supply	No.	10			
	(ii) Installation	No.	10			
26	Supply, fixing, connection of wires, testing of UPS power point with 5 nos. of 16 A, socket and control by 5 nos. 16 A switch along with top cover plate, PVC back box suitable to modular plate and other necessary accessories to complete the installation as per standard practice					
	(i) Supply	No.	1			
	(ii) Installation	No.	1			

(In Words Rupees _____
_____ only)

Date:

Signature:

Place:

Name:

Address:

Office Seal of firm

Note: 1. The offered rates shall be inclusive of all taxes and duties. Service Tax shall be paid as applicable.
2. Payment will be made at actuals.