

NOTICE INVITING BUDGETORY OFFERS

Name of Work	NAME OF WORK : “Supply, installation, testing and commissioning Split type & Tower type Air-conditioners at MPA”
Date of submission of budgetary quotation	On or Before 15/06/2023 at 11:00 Hrs.
Address for communication:	Executive Engineer (E-HL), Mechanical Engineering Department, Mormugao Port Authority, Electrical Section, 1st Floor, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594241, 2594244 Email : xene.mgpt@gmail.com
Website	www.mptgoa.gov.in

**EXECUTIVE ENGINEER (E-HL)
MORMUGAO PORT AUTHORITY**

MORMUGAO PORT AUTHORITY
ENGINEERING MECHANICAL DEPARTMENT

Sub: Supply, installation, testing and commissioning of Split type & Tower type Air-conditioners at MPA

Ref: Budgetary Quotation No. CME/XEN(E-HL)/MM/2023/M10

Mormugao Port Authority intends to procure & install Split type & Tower type Air-conditioners. As such, kindly furnish the budgetary quotation for the same (Scope of work enclosed as Schedule - 'A' and Price Schedule enclosed as Schedule - 'A1').

Your budgetary quotation should reach to this office on 15.06.2023.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HL)

TECHNICAL SPECIFICATION**Introduction:**

Mormugao Port Authority (formerly known as Mormugao Port Trust) is one of the oldest ports on the West Coast of India located in the state of Goa, commissioned in 1885. This port is one among twelve major ports in India. This port is midway between ports of Mumbai and New Mangalore Port is blessed with a protected open type natural harbour. Over the years, it has developed a deep draft channel. With its location at the mouth of the Zuari River, it is a crucial component in the flourishing export industry of the state of Goa. It became one amongst the major ports of the country in 1964.

1.0. General :

Mormugao Port Authority (MPA) invites budgetary quotations for “Supply, Installation, testing and commissioning of Split type & Tower type Air-conditioners at MPA”.

2.0. Scope of Work

The Scope of work broadly involves Supply, Installation, testing & commissioning of the following Split AC's & Tower AC's complete with mounting kit and all other accessories at MPA.

- 2.1. S, I, T & C of 06 nos 1.5 TR Split inverter air-conditioner 5 star rated, single phase
- 2.2. S, I, T & C of 02 nos 2 TR Split inverter air-conditioner 5 star rated, single phase.
- 2.3. S, I, T & C of 03 nos 1.5 TR Tower type air-conditioner 5 star rated, single phase.
- 2.4. S, I, T & C of 07 nos 2.0 TR Tower type air-conditioner 5 star rated, single phase.
- 2.5. S, I, T & C of 05 nos 2.5 TR Tower type air-conditioner 5 star rated, three phase.
- 2.6. Disconnection, removing & handing over existing old AC's and its accessories to Port. Old AC's have to be removed without any damage.
- 2.7. The work shall be carried out as per relevant IS standards and IE rules.

3.0 Detailed Technical Specifications**3.1 Air Conditioners**

The Contractor shall supply, installation, testing and commissioning of split type & tower type AC's complete with all accessories at MPA as per the technical specification given below.

a) Inverter Split type Air conditioner 1.5TR & 2.0TR

Sr. No.	Parameter	Specifications for 1.5TR & 2.0TR inverter split AC's	
1.	Cooling Capacity	1.5 TR	2.0 TR
2.	Star rating	5	
3.	Electrical input	230V/50Hz/Single Phase	
4.	Air flow rate	600 CFM or more	800CFM or more

5.	Fan speed	3 Steps
6.	Function modes	Auto/Cool/Fan/Dry – shall have power saving mode, temperature setting option should be available, ECO mode
7.	Outdoor unit	Anti-corrosive Blue fins, Highly rust resistant casing for all weather conditions
8.	Air filtering unit	Dust proof and anti-bacteria filter
9.	Tubing	100% Copper, Min. Length 3 Mtr.
10.	Remote control	Wireless with Backlight display
11.	Refrigerant type	R-32
12.	Warranty	OEM standard warranty from the date of supply.
13.	Evaporator fins (Indoor unit)	Anti-corrosive Blue fins
14.	Acceptance Criter	Split AC should conform to IS 1391(part 2)-1992, room AC specification.
15.	OEM ISO certification	ISO-9001 & ISO 14001
16.	Drain pipe	5/8" PVC rigid pipe

b) Tower type Air conditioner 1.5TR, 2.0TR & 2.5TR

Sr. No.	Parameter	Specifications for 1.5TR, 2.0TR, 2.5TR Tower AC's		
		1.5 TR	2.0 TR	2.5TR
1.	Cooling Capacity	1.5 TR	2.0 TR	2.5TR
2.	Star rating	5 star rating	5 star rating	5 star rating
3.	Electrical input	230v/50Hz/Single Phase	230V/50Hz/Single Phase	415V/50Hz/Three Phase
4.	Cooling capacity	20000 Btu/h or more	24000 Btu/h or more	30000 Btu/h or more
5.	Air flow rate	600 CFM or more	800CFM or more	1000CFM or more
6.	Fan speed	3 Steps		
7.	Function modes	Auto/Cool/Fan/Dry – shall have power saving mode, temperature setting option should be available, ECO mode		
8.	Outdoor unit	Anti-corrosive Blue fins, Highly rust resistant casing for all weather conditions		
9.	Air filtering unit	Dust proof and anti-bacteria filter		
10.	Tubing	100% Copper, Min. Length 3 Mtr.		
11.	Remote control	Wireless with Backlight display		
12.	Refrigerant type	R-32		
13.	Warranty	OEM standard warranty from the date of supply.		
14.	Evaporator fins (Indoor unit)	Anti-corrosive Blue fins		
15.	Acceptance Criter	Tower AC should conform to IS 1391(part 2)-1992, room AC specification.		
16.	OEM ISO	ISO-9001 & ISO 14001		

	certification	
17.	Drain pipe	5/8" PVC rigid pipe

c) Voltage Stabilizer for single phase split & single phase tower Air conditioners

Sr. No.	Stabilizer Specification	
1.	Rating in KVA:	5.0 KVA and above
2.	Type of winding:	Copper
3.	Input Single Phase sine wave:	160V-260V
4.	Mounting Type:	Wall mounting
5.	Warranty	5 Years

Note: **Item shall be procured from original manufacturer or from their authorized representative i.e. dealer/distributor/stockiest etc.**

a) Installation, testing and commissioning of Air conditioners

- Installation of split Air Conditioners as per OEM standards at the designated locations at MPA.
- Spares such as outdoor unit mounting bracket is under contractor's scope.
- The Cu pipes, drain pipes, power supply cables, insulating foam, wrapping tape required for interconnection of outdoor unit with indoor unit upto a length of 3 metres is under contractor's scope. Any additional length more than 3 meters of the above materials which are required for completion of work will be paid at actuals.
- For drain pipe 5/8" PVC rigid pipe to be used for the entire length and 5/8" braided hose pipes shall be used to connect the PVC rigid pipe to indoor unit. The pipes shall be fixed using GI clamps, elbows, connectors & bends of suitable size as necessary. Cu pipes, power supply cables, foams have to be used as per OEM standards. **Power supply cables shall be used of single length without any joints.**
- Civil works such as drilling of holes in the wall for passing AC pipes, cables etc. and re-plastering with white cement to the satisfaction of Engineer-In-Charge is under contractor's scope. Drilling of holes should be done neatly by using suitable machines and accessories and should avoid extra chipping/damaging the walls and ceilings.
- Miscellaneous items for laying Cu tubing, drain pipe & power cables like saddles, fitting materials, screws, nuts, fasteners, jointers, sealants, etc. as required to be provided by the Contractor to commission the system successfully.

4.0 Special Conditions of Contract

- 4.1 The Bidder shall be either an Original Equipment Manufacturer (OEM) or an authorized certified partner/authorized dealer of an OEM.
- 4.2 The Bidder shall inspect the site if required, though not compulsory for installation at MPA, to ascertain the quantum of work before submitting their bid.

- 4.1 **PRICES:** Prices quoted should be on F.O.R. destination basis inclusive of transit insurance indicating clearly the quantum of taxes and other charges whatsoever applicable. The prices should be firm. However, in case of any statutory revision in taxes within the delivery period of supply order, the same will be considered provided you furnish documentary evidence such as copy of Govt. notification.
- 4.2 **TAXES:** Applicable GST at the time of delivery during the contractual period shall be included in the invoice.
- 4.3 **COMPLETION PERIOD:** The A.C's are to be supplied & installed within 4 weeks of receipt of the purchase order/LOA, at Port, Vasco-da-Gama, Goa, duly insured at your cost.
- 4.4 **PACKING:** The materials shall be duly packed to withstand the hazards of transportation.
- 4.5 **INSPECTION:** The material will be inspected by our Quality Control Officer on receipt at our Stores. Any damage to the items during transportation shall be to Supplier's account. If the supplied items are rejected due to any defects/quality, the supplier has to make his own arrangements at his cost to lift the rejected materials and to replace the same immediately.
- 4.6 All the quantities indicated in the price schedule/BoQ are indicative. However, the work shall be carried out as per site conditions. Payment will be released as per actual executed quantities after completion of work. Payment shall be released by ECS/EFT/RTGS within 30 days of successful completion & commissioning of work and receipt of bills, whichever is later.
- 4.7 Offers should not contain any sort of conditional discounts based on quantity or value of order.

SCHEDULE OF PRICES AND QUANTITIES**PRICE SCHEDULE**

Sr. No.	Item description	Qty.	Unit	Rate/ Unit (Rs.)	G.S.T %	GST Amt.	Amount Incl. of GST
A	B	C	D	E	F	G	G= (CXE) +G
1	Supply, installation, testing and commissioning of 1.5 TR Split inverter air-conditioner 5 star rated, single phase. including all accessories, voltage stabilizer and as per Scope & technical specification at Schedule 'A'						
a	Supply	06	nos				
b	Installation, testing and commissioning	06	nos				
2	Supply, installation, testing and commissioning of 2 TR Split inverter air-conditioner 5 star rated, single phase. including all accessories, voltage stabilizer and as per Scope & technical specification at Schedule 'A'						
a	Supply	02	nos				
b	Installation, testing and commissioning	02	nos				
3	Supply, installation, testing and commissioning of 1.5 TR Tower type air-conditioner 5 star rated, single phase. including all accessories, voltage stabilizer and as per Scope & technical specification at Schedule 'A'						
a	Supply	03	nos				
b	Installation, testing and commissioning	03	nos				
4	Supply, installation, testing and commissioning of 2.0 TR Tower type air-conditioner 5 star rated, single phase. including all accessories, voltage stabilizer and as per Scope & technical specification at Schedule 'A'						

a	Supply	07	nos				
b	Installation, testing and commissioning	07	nos				
5	Supply, installation, testing and commissioning of 2.5 TR Tower type air-conditioner 5 star rated, three phase. including all accessories and as per Scope & technical specification at Schedule 'A'						
a	Supply	05	nos				
b	Installation, testing and commissioning	05	nos				
6	Supply, laying & fixing of Cu pipes, drain pipes, power supply cables, foams for 1.5TR Split & tower AC's as per Scope & technical specification at Schedule 'A'(additional)	50	m				
7	Supply, laying & fixing of Cu pipes, drain pipes, power supply cables, foams for 2TR Split & tower AC's as per Scope & technical specification at Schedule 'A'(additional)	50	m				
8	Supply, laying & fixing of Cu pipes, drain pipes, power supply cables, foams for 2.5TR Tower AC's as per Scope & technical specification at Schedule 'A'(additional)	30	m				
TOTAL(Inclusive of G.S.T)							

(In Words Rupees _____ only (inclusive of GST))

Note: The rates quoted shall be inclusive of freight, packing & forwarding, insurance and inclusive of GST.

Date:

Signature:

Place:

Name:

Address:

Office Seal of firm