

## **NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>NAME OF WORK : “Supply, installation, testing and commissioning Split type Air-conditioners at MPA”</b>
Date of submission of budgetary quotation	On or Before <b>20/02/2024 at 11:00 Hrs.</b>
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 : <a href="mailto:xene.mgpt@gmail.com">xene.mgpt@gmail.com</a>
Website	<a href="http://www.mptgoa.gov.in">www.mptgoa.gov.in</a>

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

**MORMUGAO PORT AUTHORITY**  
**ENGINEERING MECHANICAL DEPARTMENT**

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

**Ref: Budgetary Quotation No. CME/XEN(EHL)/MM/2024/B5**

Mormugao Port Authority intends to procure & install Split 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 20.02.2024.

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 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 complete with mounting kit and all other accessories at MPA.

- 2.1. S, I, T & C of 16 nos inverter type, 5 star rated, single phase, 1.5 TR Split air-conditioner along with voltage stabilizer and mounting brackets. The Cu pipes, drain pipes, power supply cables, insulating foam, wrapping tape required for interconnection of outdoor unit with indoor unit up to a length of 3 metres each is to be supplied as a standard package along with the each AC. In addition supply, laying, connection of total length of 50 mtrs of Cu pipes, 50 mtrs drain pipes, 50 mtrs power supply cables, 50 mtrs insulating foam and 50 mtrs wrapping tape required for installation of above 16 Nos. 1.5TR split AC's is in the scope of bidder. However, the additional length of each item for interconnecting the indoor unit with the outdoor unit shall be installed as per site conditions.
- 2.2. S, I, T & C of 15 nos inverter type, 5 star rated, single phase, 2 TR Split air-conditioner along with voltage stabilizer and mounting brackets. The Cu pipes, drain pipes, power supply cables, insulating foam, wrapping tape required for interconnection of outdoor unit with indoor unit up to a length of 3 metres each is to be supplied as a standard package along with the each AC. In addition supply, laying, connection of total length of 100 mtrs of Cu pipes, 100 mtrs drain pipes, 100 mtrs power supply cables, 100

mtrs insulating foam and 100 mtrs wrapping tape required for installation of above 15 Nos. 2 TR split AC's is in the scope of bidder. However, the additional length of each item for interconnecting the indoor unit with the outdoor unit shall be installed as per site conditions.

- 2.3. Disconnection, removing & handing over existing 23nos old AC's and its accessories to Port. Old AC's have to be removed without any damage.
- 2.4. 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 carry out supply, installation, testing and commissioning of split 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	
		1.5 TR	2.0 TR
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 Criteria	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 /flexible pipe	

b) Voltage Stabilizer for single phase 1.5 TR and 2 TR split Air conditioners

Sr. No.	Stabilizer Specification	
1.	Rating in KVA:	4.0 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.
- Cu pipes, power supply cables, drain pipes, foams, etc. 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. 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 8 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 Payment will be released as per actual executed quantities after completion of work. Payment shall be released by ECS/NEFT/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 5 star rated, single phase 1.5 TR Split inverter air-conditioner including all accessories, voltage stabilizer, mounting brackets, supply, laying, connection of 50 mtrs Cu pipes, 50 mtrs drain pipes, 50 mtrs power supply cables, 50 mtrs insulating foam, 50 mtrs wrapping tape as per Scope & technical specification at Schedule 'A'						
a	Supply	16	nos				
b	Installation, testing and commissioning	16	nos				
2	Supply, installation, testing and commissioning of 5 star rated, single phase 2 TR Split inverter air-conditioner including all accessories, voltage stabilizer, mounting brackets, supply, laying, connection of 100 mtrs Cu pipes, 100 mtrs drain pipes, 100 mtrs power supply cables, 100 mtrs insulating foam, 100 mtrs wrapping tape as per Scope & technical specification at Schedule 'A'						
a	Supply	15	nos				
b	Installation, testing and commissioning	15	nos				
<b>TOTAL(Inclusive of G.S.T)</b>							

(In Words Rupees \_\_\_\_\_ only  
(inclusive of GST))

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

**Date:**  
**Place:**

**Signature:**  
**Name:**  
**Address:**  
**Office Seal of firm**