

OUR REF.: 2025MPM-AO/T3861-1000

Revision : 0

13-Aug-2025

TO:

Ministry of Defence

Kind Attention :

Phone No. :

**PROJECT :** MOD/2021/018A - Proposed construction of Officer's Mess at BAF - Muscat  
MOD/2021/018A

**SUBJECT :** Supply, Startup & Commissioning of chillers ,Supply of Air andling Units, Supply of  
Fan Coil units

Dear Sir,

We thank you for inviting us to quote for the subject stated above. We are pleased to submit our most competitive techno-commercial bid for the subject project as under-

**Scope of Work**

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**TRANE** packaged air-cooled liquid chiller Model **CRTAG 440X** (Made in China), having a capacity of **326.9 TR** when operating at **46 Deg C** ambient temperature with entering chilled water temperature **12 °C** and leaving chilled water temperature of **5.5 °C**.  
**Features of proposed Chiller**

**Air Cooled Chiller CRTAG Qty:2**

- \* **BMS Integration:** BACnet communication interface card for seamless integration with Building Management Systems. test
- \* **Capacity Control:** Continuous modulating capacity control for precise load matching and energy efficiency.
- \* **Chiller Selection:** Units shall be selected in accordance with the selection sheet provided.
- \* **Commissioning:** Complete commissioning and startup support provided.
- \* **Compressor Configuration:** Equipped with 2/3/4 semi-hermetic screw compressors operating at 3000 RPM.
- \* **Compressor Starter:** Wye-Delta starter configuration for smooth compressor motor startup.
- \* **Condenser Coil Protection:** Anti-corrosion coating applied locally by TRANE-approved vendor as per ASTM B117 standard. Includes 5-year warranty on the coating.
- \* **Condenser Coil:** High-efficiency copper-aluminum heat exchanger.

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- \* Country of Origin: The proposed chiller shall be manufactured in China.
- \* Electrical Protection: Integrated under-voltage and over-voltage protection for electrical safety.
- \* Evaporator: Shell and tube evaporator insulated with 19 mm thick expanded rubber foam for improved thermal efficiency.
- \* Power Connections: Provision for single or dual power point power supply.
- \* Power Supply: Designed for 400V / 50Hz / 3-phase power supply.
- \* Refrigerant Charging: Units will be shipped without refrigerant; R-134a refrigerant to be charged at site.
- \* Refrigeration Circuits: Single or Two independent refrigeration circuits for enhanced reliability and operational flexibility.
- \* Safety Components: Includes flow switches, discharge valves, and neoprene isolators for system protection and vibration control.
- \* User Interface: TD7 display with a user-friendly human-machine interface for simplified operation and diagnostics.

**Air Handling unit CLCP Qty:12**

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We have proposed **TRANE** &ldquo;Quantum Climate changer&rdquo; Model: CLCP ME &nbsp;&nbsp;&Double skin air handling units (Made in KSA) as per enclosed selections. The panels of these units are manufactured by injection of **PUF insulation** between two metal skins to produce a rigid and totally enclosed casing of **50mm thickness** with thermal barrier. The casing Construction shall be **0.5 mm powder paint GI sheet External & GI Internal.**
- \* Casing External: 0.5mm Powder Painted Galvanized Steel/ Stainless Steel SS304.
- \* Casing Internal: 0.5mm Galvanized Steel/ Stainless Steel SS304.
- \* Complete fan and motor assembly is mounted on spring isolators.
- \* Cooling coil section: Copper tubes and Aluminium fins suitable for chilled water system with chilled water IN/OUT = 6/12 deg C.
- \* Cooling coil section: Copper tubes and Aluminium fins suitable for Dx system with Refrigerant R410a/R407c.
- \* Drain pan: Stainless Steel SS304.
- \* Eurovent Certified.
- \* FAHU Shall be provided with Heat Recovery Wheels as per the given schedule.
- \* FAHU shall be supplied with Heat Pipe as per the given schedule.
- \* Fan motors: shall be VFD compatible high efficiency IE3 Type [VFD excluded]
- \* Fan section: with Statically & Dynamically balanced Double Inlet Double Width Belt Driven Centrifugal Fan with constant pitch pulley/ plug fans with VFD/ Variable Speed high efficiency EC fans (SISW).
- \* Filter Section: 2" flat filter of grade G3 + 15" Bag filters of grade F7 as per EN779.
- \* H13 Hepa filter section as the given schedule.
- \* Insulation: 50mm thick pressure injected polyurethane foam (PUF) insulation.

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- \* Mixing/Inlet section: With standard motorizable damper [Actuator excluded]
- \* Panels: Double skin, rigid and totally enclosed casing with thermal barrier.
- \* Roof canopy: Provided for external/ roof mounted units.
- \* The proposal has given based on attached selection and drawings.
- \* Thyristor controllable Electric heater section as per the given schedule (Thyristor Excluded)
- \* UV section with UV lamps as per the given schedule.

#### Fan Coil unit FWC Qty:65

- \* Built-in internal drain pump for effective condensate removal
- \* Compatible with wired or wireless controllers
- \* Elegant appearance to complement interior architecture
- \* Four-way air discharge with swing blades for optimal air diffusion
- \* Lightweight design for easy installation
- \* Standard filters
- \* Trane chilled water cassette unit, Made in PRC
- \* <p>Trane chilled water fan coil unit <strong>Model FWC &ndash; Cassette &nbsp;&#x2013; HFXF-Decorative units (Made in PRC) </strong>&nbsp;&#x2013;</p><p><strong>The fan coil unit shall be complied with following features:</strong></p>

#### Payment Terms

30% advance, Balance payment through LC.

#### Item & Price Detail

SNo.	Description	Model	Quantity	Rate	Amount
<b>Equipments</b>					
1	Air Cooled Chiller	CRTAG 400X	2	62,013.00	124,026.000
2	Fan Coil unit	FWC010	35	280.00	9,800.000
3	Fan Coil unit	FWC012	16	304.00	4,864.000
4	Fan Coil unit	FWC015	14	396.00	5,544.000
5	Fan Coil unit	HFXF10LC01100CG02B	11	163.00	1,793.000
6	Fan Coil unit	HFXF14LH01100CA02B	2	177.00	354.000
7	Air Handling unit	CLCP005	1	1,809.00	1,809.000
8	Air Handling unit	CLCP007	1	2,157.00	2,157.000
9	Air Handling unit	CLCP006	1	1,907.00	1,907.000
10	Air Handling unit	CLCP006	1	2,121.00	2,121.000
11	Air Handling unit	CLCP008	1	2,172.00	2,172.000

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12	Air Handling unit	CLCP007	1	2,062.00	2,062.000
13	Air Handling unit	CLCP007	1	2,158.00	2,158.000
14	Air Handling unit	CLCP010	1	2,461.00	2,461.000
15	Air Handling unit	CLCP012	2	2,585.00	5,170.000
16	Air Handling unit	CLCP014	1	2,915.00	2,915.000
17	Air Handling unit	CLCP014	1	2,765.00	2,765.000

**Total 174,078.000**

in Words : **OMR : One Hundred Eighty-Two Thousand Seven Hundred Eighty-Two Only**

**VAT 5.00 % 8,704.000**

**Grand Total 182,782.000**

#### Validity

30 days hereof

#### Terms and Conditions

- \* This quotation is valid for a period of 10 days from the date of issue.
- \* Prices quoted are inclusive of applicable taxes and duties unless otherwise stated.
- \* Installation is included in the quotation. If included, it must be scheduled in advance.

#### Delivery

Within 16 to 18 weeks to our store from the date of confirmed order and receipt of letter of credit.

#### Warranty

##### Air Cooled Chiller (Compressor Warranty)

<p><strong>test 11 compressor warranty</strong></p>

##### Air Cooled Chiller (Unit Warranty)

<p><strong>Complete unit 1 year </strong>warranty from the date of commissioning or 1 &frac12; year from the date of delivery, whichever occurs first.</p>

#### Exclusions

##### Air Cooled Chiller

Valves, pipings, strainers, supports, pressure gauges and thermometers,

Factory witness test & Factory visit for AHU & FCU

Spare parts & any Accessories

<p>fff</p>

<p><strong>Balancing valves motorized three way valves for FCU&rsquo;s, Thermostats etc.&nbsp;</strong></p>

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We trust you will find the above offer in line with your requirement .In case you shall require any further clarifications, please feel free to contact us.

Thanking you and assuring you our best attention at all times.

Yours truly,

For **AIRMECH OMAN L.L.C**

**Manjunatha Malleshappa**