

## Bid invitation

### Information

Description:EMN2/Supply of 10/11T AC Unit Ductable  
Bid invitation number:6300035677

### Bid invitation rules

Bid invitation currency: INR

**Timezone:** UTC+53

**Submission period:** 24.03.2021 17:00:00

**Opening date:** 24.03.2021 17:00:00

**Created On:** 09.03.2021 08:50:33

### Bid invitation text:

#### GENERAL TERMS AND CONDITIONS

1. Delivery Terms: FDD/FOR BEML, KGF.
2. Payment Terms: 60 Days from receipt & acceptance of item. For Micro/ Small Enterprises, it is 45 Days.
3. Micro & Small enterprise bidders to indicate Udyog Aadhar Memorandum number (UAM) and declaration of UAM on CPPP in their bid.
4. Quote should be valid for minimum 60days from the date of Bid opening. Bids with validity of less than 60 days are liable for rejection.
5. Firm to indicate GSTIN and applicable GST in their Bid.
6. Firm to indicate HSN CODE for the items in the items in the Bid invitation
7. Firm to indicate the time requirement for supply.
8. Warranty for the material to be specified.
9. Firm to indicate complete specification and other connected details in their Bid.
10. L-1 evaluation will be based on landed cost of technically accepted Bids.

#### NOTE:-

1. In e-Bidding system – if you need any type of assistance, please contact Mr. Krishna Mohan (Ph No.080-22963269/22963141 & Email-admin.srm@beml.co.in)
2. Please contact given below mail Ids for any type of technical clarification.

i)emnkgf@beml.co.in      ii)hmnp@beml.co.in      iii)hn@beml.co.in

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### TECHNICAL SPECIFICATIONS FOR ONE TIME REPAIR/RECONDITIONING OF DUCTABLE 10 TON AC UNIT AT CAD CENTRE OF R and D DIVISION

PART "A" : SCOPE OF SUPPLY OF MATERIALS AS PER DETAILS MENTIONED BELOW

EXISTING :

#### 1. INDOOR UNIT :

Consisting of 5T compressors (2 nos., hermetically sealed, 415V, 3phase,50Hz,Copeland make to Model Number: QR12M1-TFD piston type,Refrigerant used : R-22.) along with Evaporator unit with drier and expansion valves and other accessories housed in suitable MS enclosure and interfaced with existing ducting system. Electrical controls on indoor unit

#### 2. OUTDOOR UNIT :

Consisting of condenser unit and blower fans ( 2 nos.) housed in suitable MS enclosure and connected to the indoor unit.1 NO.

REQUIRED

I) INDOOR & OUT DOOR UNITS CONSTISTS OF :

#### 1. INDOOR UNIT COMPLETE : 01 No

Consisting of Evaporator unit with drier and expansion valves along with fan and motor unit ( DIRECTLY COUPLED or BELT DRIVEN) housed in suitable fabricated MS enclosure and suitable for interfacing with existing ducting system.

Motor make : KIRLOSKAR / SIEMENS / CG / WEG/ ABB / BBL/BROWN BOVERI/LHP or REPUTED Make.

#### 2. OUTDOOR UNIT COMPLETE :01 No

Consisting of 5/5.5T compressors individually controlled (2 nos. hermetically sealed,415V, 3phase,50Hz,) along with suitable good quality coil unit (condenser unit) and blower fans ( 2 nos.) housed in suitable fabricated MS enclosure. Out door unit shall be suitable for interfacing above indoor unit mentioned

Motor make : KIRLOSKAR / SIEMENS / CG / WEG/ ABB / BBL/ BROWN BOVERI/LHP or REPUTED Make..

COMPRESSOR DETAILS:

5/5.5 Ton capacity compressor, Type: SCREW / ROTARY / SCROLL, 3 Phase,415 V± 10%,50Hz with eco friendly refrigerant. Make: TOSHIBA / CARRIER/ COPELAND/ BLUESTAR / GODREJ / HITACHI / KIRLOSKAR / EMERSON /TECUMSEH

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### 3. CONTROL PANEL (MAIN CONTROL PANEL AND REMOTE PANEL) : 01SET

Suitable Main control panel shall be supplied as an integral part of Indoor unit or as separately fabricated MS enclosure/unit out side the indoor unit. Main control panel is to be interfaced with Remote control panel ( wired type) inside the CAD center.

Control Panel shall consist of:

#### 1. Main control panel - 1 No.

Main control panel shall be with/consists of :

A. Suitable rated contactors, Over Load Relays(OLR) for condenser fan motors, compressors and Evaporator fan motor and protective accessories like HRC fuses, other accessories like Elmex connectors /DIN rail connectors of reputed make, proper Brass cable glands etc..

B. Main switch/MCB of reputed make with suitable rating to be provided in the main control panel at the input mains- As reqd

C. Individual controls for blower and compressors through push button switches only.

D. LED indicators for Blower fans and Compressor ON,OFF and TRIP indications.

#### 2. Remote control panel - 1No.

Remote control panel shall be with/consists of :

A. Suitable ON-OFF control provision for blowers, compressors through push button switch arrangements only.

B. LED indicators for Blower and Compressor ON,OFF and TRIP indications.

C. Suitable rated Digital temperature controllers of programmable type with LCD or LED display indicators and suitable sensor cables shall be provided inside the CAD center for monitoring & observation- 2no. ( Temperature controllers.- 1 No. for each compressor)

D. Panel shall be of Siemens Grey painting

E. Cable entry thorough with suitable PVC/NYLON/BRASS Glands only.

II) Suitable Eco friendly Refrigerant for above system- As reqd.

III) Armoured Copper cables of suitable rating for inter connection of Indoor, Outdoor units & panels.

Suitable Flexible PVC copper cables for interfacing Main control panel and Remote control panel

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and other connections- ONE LOT/As Required

IV) Lubrication oils - As reqd.

V) Copper tubing, required hardware items, Thermal insulation materials etc.- ONE LOT

VI) Drain system with braided nylon flexible pipe or better arrangement.- As reqd.

VII) Other miscellaneous materials required at the time of repair/reconditioning- As reqd.

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PART "B"

## INSTALLATION AND COMMISSIONING

### SCOPE OF WORK :

The Firm /Vendor shall carryout the Repair/servicing by interfacing the new out door unit and indoor unit with the accessories mentioned in PART A above to the existing AC Ducting systems along with required refrigerant

1 Repair of Ducts at the existing interfacing area ( Tarpaulin couplings with gip opening for inspection) and Dampeners ( repair/replacement)

2 Electrical up-gradation and Modification

3 Interfacing of controls to the separate remote control box located inside the CADCENTRE

4 Fabrication works if needed

5 Mounting of digital temperature controllers with suitable and aesthetically good looking board/boxes inside the CAD center and related wiring work to be done

6 After Repair/servicing, firm shall ensure operating Temperature of  $23\pm 3$  C° to be maintained inside the CAD CENTRE

7 Any other miscellaneous works arises during reworks

8 Fabricated units shall have good quality Siemens grey/German grey color painting

Warranty from date of commissioning:

a). 1 Year for complete system

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b). 2 Years minimum for compressors or as per the OEM warranty whichever is greater.

NOTE:

Firms are requested to visit the site before quoting/participating in the tender process to assess the conditions and for making wired remote control panel with temp controllers at different locations inside the CAD center

Attachments:

Digital Signature

Bid invitation details

Item	Product	Description	Vendor product number	Delivery date/ performance period	Quantity
1	RD366GTI0059	10/11TR AC UNIT DUCTABLE TYPE		00:00:00	1.000 SET
		SGST - State GST	%	_____	
		UTGST	%	_____	
		Basic Price	INR	_____	
		CGST - Central GST	%	_____	
2		Installation & Commissioning Charges			1 JOB
		SGST - State GST	%	_____	
		UTGST	%	_____	
		Basic Price	INR	_____	
		CGST - Central GST	%	_____	