

डाक प्रमाणित UNDER CERTIFICATE OF POSTING

दूरभाष : 26591762, 26591754,
26597218, 26591767, 26591450
तार : टेक्नालाजी दिल्ली
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भारतीय प्रौद्योगिकी संस्थान, दिल्ली



INDIAN INSTITUTE OF TECHNOLOGY, DELHI



हौजखास, नई दिल्ली -110016, HAUZKHAS, NEW DELHI-110016

निर्माण विभाग WORKS DEPARTMENT

दर आमंत्रण सूचना

NOTICE INVITING QUOTATION

द.आ.सू.सं : भा.प्रौ.सं.दि/सं अ./NIQ NO : IITD/IE/ 783	द.आ.सू. तारीख NIQ DATE 22/03/2013	दर सूची खोलने की तारीख OPENING DATE OF NIQ 04/04/2013
IITD/EE(E)/2012-13		

कार्यपालक अभियन्ता (.....) संस्थान में निम्नलिखित सामग्री की आपूर्ति हेतु प्रामाणिक फर्मों/व्यापारियों से मोहरबन्द दर सूची आमन्त्रित करते हैं

Executive Engineer (.....) Invites sealed quotations from the genuine firms / dealers for the material given below required at this Institute :-

EE(E)

विषय / Sub.....

PROCUREMENT OF 1.0 TR WINDOW TYPE AC FIVE STAR RATING

क्रम सं. Sl. No.	वस्तु का नाम तथा पूर्ण विवरण Name of article & full specification	ईकाई Unit	मात्रा Quantity
1	1.0 TR WINDOW TYPE AIRCONDITIONERS FIVE STAR RATING (Specifications as enclosed with N/A ANNEXURE I & II. Supply of 1.0 TR window Type Air-Conditioners Five Star Rating Make :-Voltas/Blue Star/Hitachi/LG/ TERMS AND CONDITIONS. Rates are inclusive of all taxes and duties.2.F.O.R IIT Delhi.3.Payment after delievry 4.Earnest money in the shape of PO/B.C/DO in favour of Registrar IIT Delhi for Rs 43,300/- only 5. Quotation shall be submitted duly completed in two separate Envelopes. one Part I Technical and commercial bid and Part II. financial bid. Both the bids shall be submitted together on or before the due date and time. The name of firms, date of opening bids, Technical bids and financial bid shall clearly be super scribed on the respective envelope. 6. The price bid of only those bidder shall be opened whose technical bids are in line with specifications of the technical bid of quotations. 7. Date of submission of bids 04/04/2013 up to 3.00 PM 8. Date of opening Technical bid 04/04/13 at 330 PM	no	100.000
			43300.00

टिप्पणी : निबंधन एवं शर्तें दूसरी तरफ दी गई है।
NOTE : THE TERMS & CONDITIONS OVERLEAF

बयाना राशि :

Earnest Money : 43,300/-

दर सूची खोलने की तिथि तारीख को अपराहन 2.30 बजे तक दर सूचियां प्राप्त की जाएंगी तथा उसी दिन अपराहन 3.00 बजे दर सूचियां खोली जाएंगी। दर सूची प्राप्त करने की तिथि तारीख को अपराहन 2.30 बजे के पश्चात प्राप्त दर सूचियों को अस्वीकृत किया जा सकता है।

The quotations will be received upto 2.30 p.m. and opened at 3.00 p.m. on due date of opening. Quotations received after 2.30 p.m. on due date are liable to be rejected.

सेवा में, हमारे पास सत्रीबद्ध सभी फर्म
सहायक कार्यपाल अभियन्ता [] सहायक कुलसचिव (लेखा)/उप कुलसचिव (लेखा)
कार्यपाल अभियन्ता (.....) तथा संस्थान अभियन्ता

To : All the firms enlisted with us
A.E.E.[]/AR/D.R. (Accounts)

अधीक्षक, निर्माण Superintendent Works
भारतीय प्रौद्योगिक संस्थान
INDIAN INSTITUTE OF TECHNOLOGY
हौज खास, नई दिल्ली-110016

Part-1 Technical Cum Commercial Bid
Annexure -1
INDIAN INSTITUTE OF TECHNOLOGY DELHI:
HAUZ KHAS. NEW DELHI -110016
(AIR-CONDITIONING SUB DIVISION)

Name of work:- Replacement of 15 years and more old inefficient Air-Conditioners and procurement of 1.0 Tr. WTAC for faculty and group A officers at IIT Delhi.



Sub Head :- Procurement of 1.0 Tr. WTAC for faculty and group A officers at IIT Delhi.

Ch .to :- PLN-05/EW

Design Parameters

Window type Air -Conditioner

Sr. No.	Description of Item	Rate Per Unit	Amount
1.	Supplying of 1.0 TR Window type Air -Conditioner Rated cooling capacity nominal (Watt) : 3500 Noise Level (indoor)(Db) Max : ≤50 Minimum Star Rating : 5 Star EER(W/W) : ≥3.20 Make of rotary compressor :- Hitachi/Carrier/Emerson//Tecumseh Sheet thickness for base(Outdoor Unit) : >1.20mm Sheet thickness for Body(Outdoor Unit) : >0.70mm Refrigerant : R-22or R-410	Fill the technical Specifications as per Annexure -I	Condition as per Annexure -II
Note:- 1. Quoted Rates separately for Refrigerant R22 or other ECO friendly refrigerant. 2. Annexure -I and Annexure -II are part of the Quotation 3. Technical details are mandatory to be filled by the bidder in Annexure -I and Annexure -II			
List of approve Makes			
	Name of Material	Manufacturer/ Brand Name	
	Window type Air -Conditioner	Carrier /Blue Star/LG/ Samsung/ Hitachi/Tecumseh/O-General/WhirlPool /Godrej/ Daikin/Voltas /York /Onida/GE/Mitsubishi Electric/Toshiba/Panasonic	

TECHNICAL PARTICULARS TO BE FURNISHED BY THE BIDDER

ANNEXURE -I

1. Window Air Conditioner Unitary Type fitted with Rotary Compressor

Technical Specifications:

Window mounted unitary Room Air Conditioners with remote fitted with rotary compressor to JISS or ASHARE standard and confirming to IS: 1391 (part-1): 1992 (Reaffirmed 2004) with amdts. 1 to 4 with additional parameters as given under General Technical Requirements.

Following details will fill by vendors/ Bidders for Window Air Conditioner of 1.0 TR

- 1.1 Name of the manufacturer
- 1.2 Make & model of Unit
- 2.1 Overall dimensions of : (L X W X H in mm)
 - a. Unit
 - b. Front Panel
- 3.1 Details of Cabinet:
 - a. Material
 - b. Thickness
 - c. Surface treatment
 - d. Type of Finish
- 4.1 Details of Compressor
 - a. Name of the Manufacturer
 - b. Model
 - c. Starting method
 - d. Capacity of Compressor
 - e. Rating of compressor motor. _____ kW
 - f. Max. Full load current of Compressor at rated Voltage at IS rated test conditions
- 4.2
 - a. Warranty of Compressor (In years)
 - b. Speed of Compressor
- 5.1 Rating of unit at Capacity rating test conditions as per Clause 9.1 of IS: 1391 (Part-1) 1992 (Reaffirmed 2004) with Amdts I to 4
 - a. Max. Current drawn. _____
 - b. Power factor of the unit. _____
 - c. Minimum sensible cooling capacity at high speed. _____
- 5.2
 - a. Min. dehumidification effect at high speed _____ K.cal./hr
 - b. Exhaust air quantity _____ M³/hr
 - c. Ventilation air quantity
- 6.1 Are all testing facilities available as per IS: 1391 (Part-1)/1992 (Reaffirmed 2004) with Amdts. 1 to 4 to testing the cooling capacity and Noise level as guaranteed under Cl. 5 as above – Yes/No



- 1.1 Details of Blower/Condenser fan Motor:
- Max. Input of motor: _____ Amp/watt
 - Type of motor to IS: 996:1999(Amdts. No.-1 to 3):
 - Does motor have dual speed, if yes what are the speeds/rpm? _____
 - Type/Make /model of motor :
 - Material of Blower
- 7.2 Air delivery of condenser fan at full speed at rated voltage _____ M³/hr
- 8.1 PARTICULARS OF CONDENSER:
- Make/model
 - Face area
 - Tube material, OD, thickness
 - Number of rows
 - Number of holes per row
 - Fin material & thickness
 - No. of fins per cm
 - Type of Coil whether grooved type: Yes / No
- 9.1 PARTICULARS OF EVAPORATOR COIL :
- Make/Model/Type
 - Face area
 - Material, OD, thickness
 - Number of rows
 - Number of holes per row
 - Fin material & thickness
 - No. of fins per cm
 - Type of Coil whether grooved type. YES / NO
- 10.1 DETAIL OF FILTER :
- Type
 - Material
 - Area (Sq. m)
 - Thickness
- 11.1 Particulars of Drip Tray:
- Thickness of sheet _____ mm
 - Material
 - Depth _____ mm
- 12.1 Size of Water Tank for dry climate zone & details of device for spraying water on condenser fan (mm) _____
- 13.1 Thermostat :
- Make & Model
 - Specification for electronic Thermostat
 - Type Test Certificate of Makers
 - Temperature differential
- 14.1 Name of the refrigerant charged to compressor
- Weight of the refrigerant charged into the unit. _____ gms



- 15.1 a. Gross area of supply air grill _____ sq.cm
b. Nett area of supply air grill _____ sq. cm
- 16.1 a. Thickness of acoustic material.
b. Material and specification of acoustic material.
- 17.1 Make of relay
- 18.1 Are manufacturer's instructions and operating service, installation manual provided? Yes /No.
- 19.1. Technical deviations, if any, from TE specification be brought out separately.

S. I. R.

General Technical requirement for Window Air Conditioner for T E:

Air conditioner (AC) shall perform the functions of cooling, dehumidifying, air circulating and air filtering and shall be suitable for operation on 230V, 50 Hz single phase AC supply.

The air conditioner shall be fitted with hermetically sealed discharge cooled type rotary compressor operating on refrigerant R-22 or R-410A run by suitably rated capacitor start electric motor. It shall be equipped with overload protection and shall be mounted on resilient mountings for quiet operation. Rotary compressor shall be of Matsushita/Hitachi/ Toshiba/ Carrier/Emerson/LG/ Tecumseh make and shall be supported by manufacturers test certificate and TTC to JISS or ASHRAE. **Additional warrantee of four years on compressors** shall be given.

The air conditioner shall be complete with automatic temperature control and cut-in and cut-out etc. for temperature range 16 to 30 degree C. The differential of the thermostat for cut-in and cut-out shall not be greater than +/- 1.75 degree C. The Air conditioners may either be provided with adjustable step-less type mechanical thermostat or electronic thermostat as per IS: 11338:1985. The overall power factor of the units shall be 0.9 at capacity rating test conditions.

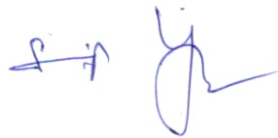
Remote cordless control with LCD/LED Display shall be provided with one On/Off timer, selecting fan speed (three speeds) and setting up of temperature. Display shall be provided on unit or on handset or on both.

Cabinet shall be manufactured from a minimum sheet thickness 1.20mm for base and 0.70 mm for the rest with galvanized coating of 120 gsm. The galvanized steel sheets shall conform to IS 277: 2003 (Re-affirmed 2007). The sheets shall be stove enameled or powder-coated. In both cases sheets shall be degreased, phosphate and provided with primer coat. The air filters provided shall be of cleanable type and synthetic made.

Two samples of each type/model of Air conditioners shall be type tested for cooling capacity and EER value by psychometric method to IS and rate contract requirements at third party NABL/BEE accredited laboratory. The EER values mentioned in schedule correspond to testing methods adopted in this specification and are not necessarily equivalent to the values specified by BEE for 3 & 4 star rating certification as mentioned in the Table 2.1 of the Gazette of India notification No. 181 (E) dated 12.1.2009, issued by Central Government of India.

SERVICING: Free service shall be provided by the supplier during the warranty period for a period of 15 months from the date of dispatch or 12 months from the date of installation of air conditioner whichever is earlier. Even in case of no complaint, at least three visits of the service engineer are required to be made during the warranty period for routine servicing.

WARANTEE: Warrantee shall be provided for 15 months from the date of dispatch or 12 months from the date of installation of air conditioner whichever is earlier. The **compressor shall have additional warrantee or 4 years** (In addition to above warrantee of 12/15 months on whole unit.)



Part-II Financial Bid

INDIAN INSTITUTE OF TECHNOLOGY DELHI:
HAUZ KHAS. NEW DELHI -110016
(AIR-CONDIONING SUB DIVISION)

Name of work:- Replacement of 15 years and more old inefficient Air-Conditioners and procurement of 1.0 Tr. WTAC for faculty and group A officers at IIT Delhi.

Sub Head :- Procurement of 1.0 Tr. WTAC for faculty and group A officers at IIT Delhi.

Ch .to :- PLN-05/EW

Window type Air -Conditioner

Schedule of quantity

Sr. No.	Description of Item	Qty	Rate Per Unit	Amount
1.	Supplying of 1.0 TR Window type Air -Conditioner Rated cooling capacity nominal (Watt) : 3500 Noise Level (indoor)(Db) Max : <50 Minimum Star Rating : 5 Star EER(W/W) : ≥ 3.20 Make of rotary compressor :- Hitachi/Carrier/Emerson//Tecumseh Sheet thickness for base(Outdoor Unit) : >1.20mm Sheet thickness for Body(Outdoor Unit) : >0.70mm Refrigerant : R-22or R-410	100 Nos.	In Figure In Words	
Total Rs.				
Discount if any In Figure In Words				
G. Total Rs.				

