



INDRAPRASTHA INSTITUTE *of*  
INFORMATION TECHNOLOGY  
DELHI

## **Short Tender Notice**

**TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC)  
OF TOWER AIRCONDITIONERS IN COMP-BIOLOGY LAB (318 & 319) OF  
LECTURE HALL COMPLEX AT CAMPUS OF THE INSTITUTE AT  
OKHLA, NEW DELHI-110020**

(Tender no. 05/2021) dated 22.06.2021

## INVITATION FOR BIDS

1. Indraprastha Institute of Information Technology (IIITD), Delhi a State University invites sealed bids, under Two Envelope Systems, from eligible bidders for supply and installation of Tower air conditioners at the 3rd floor of Lecture hall complex Okhla Phase-III New Delhi-110020 (behind Govind Puri Metro Station).
2. Interested and eligible bidders may obtain further information, inspect the site and obtain the tender document from the office of CE Room No. A-203, 2<sup>nd</sup> Floor , Old Academic Block, IIIT, Delhi Okhla Phase-III New Delhi-110020 or download from the website [\*\*https://www.iiitd.ac.in/tenders\*\*](https://www.iiitd.ac.in/tenders)
3. The tender document has to be submitted strictly in two separate envelopes as detailed below:
  - (i) First envelop should be super scribed as “Technical Bid”
  - (ii) Second envelop should be super scribed as “Financial / Price Bid”

Both the envelops should be enclosed in one big envelop super scribing as “Tender Document for Supply and Installation of Air Conditioners”.

4. All further amendments/corrigendum in Tender Document or Bid Schedule, if any, shall be notified on our website [\*\*https://www.iiitd.ac.in/tenders\*\*](https://www.iiitd.ac.in/tenders)
5. The last date for submission of Tender Document is **29<sup>th</sup> June 2021** up to 3:00 PM. The Tender Document should be addressed to:

Registrar  
Indraprastha Institute of Information Technology, Delhi  
Okhla Phase-III  
(Behind Govind Puri Metro Station)  
New Delhi-110020.

6. Earnest Money Deposit: Exempted. Bid Security Declaration to be submitted as per [\*\*Annexure-XX\*\*](#) This will be enclosed in **Envelope- A**
7. The technical bids shall be opened on the same day i.e. **29<sup>th</sup> June 2021** at 3:30 PM.

## LETTER OF SUBMISSION

To  
The Registrar,  
Indraprastha Institute of Information Technology, Delhi  
Okhla Phase-III  
(Behind Govind Puri Metro Station)  
New Delhi-110020.

I/We, the undersigned, have read and examined in detail, the specifications and all bidding documents and hereby declare that:

### **Price and Validity**

1. All the rates quoted in our proposal are in accordance with the terms and conditions as specified in the bid document. All the prices and other terms and conditions of this proposal are valid for a period of 90 calendar days from the date of submission of bid.
2. We do hereby confirm that our bid prices include all taxes/levies/cartage loading unloading supply installation testing and commissioning.
3. We hereby declare that if any tax law is altered, we shall pay the same.

### **Earnest Money**

Earnest Money Deposit: Exempted. Bid Security Declaration to be submitted as per [Annexure-XX](#) This will be enclosed in **Envelope- A**

### **Deviations**

We declare that all the services shall be performed strictly in accordance with the technical specifications and other tender conditions with no deviations.

### **Qualifying Data**

We confirm that all information/data have been submitted as required in tender document. We hereby declare that our proposal is made in good faith, without collusion for fraud and the information contained in the proposal is true and correct to the best of our knowledge and belief. I/We agree that in case any information is found to be incorrect the tender is liable to be rejected at any point of tendering process.

Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

We understand that you are not bound to accept the lowest or any bid you may receive.

Thanking you,

Yours faithfully,

(Signature and seal of Tenderer with name, designation and contact no.)

Date:

Place:

## SCOPE OF WORK

SITC, as per details below:

S. No.	Capacity	Type	Qty. as per BOQ
1.	4 TR	Tower Air conditioners	2
2	2TR	Tower Air conditioners	1

1. The air conditioners are required to be installed in the lab 318 & 319 Comp-Biology Lab at 3rd Floor in Lecture hall Complex Block of the IIITD Campus.
2. The air conditioners should be reputed branded make heavy duty type with energy efficiency rating /COP as mentioned in the Technical Specifications and BOQ suitable for 24 hours operation.
3. The bidder is advised to visit the site and access the requirement of materials for installation of ACs before quoting for the tender. All expenses towards fabrication work, civil work with cutting, drilling of hole etc. And making good of the same, copper piping of each type up to 4 meter, drain piping, insulation of copper piping, additional accessories, gas charging and electrical work including material required for the installation complete in all respects shall be provided by the bidder.
4. The bidder will be required to ensure trouble free operations of the air conditioning systems at the rated performance with minimum break down during warranty period of one year.
5. In addition to break down maintenance the bidder will be required to provide two complete services in a year for:
  - a. Complete check-up of air conditioners for performance with oiling and tuning of all mechanical and electrical parts,
  - b. Temperature regulation and power consumption checking,
  - c. Cleaning of condenser and cooling coils, filters & body etc.
  - d. Any other problem faced by us from time to time.
6. In case of compressor failure no repairs of compressor shall be allowed. The bidder has to provide replacement of compressor from the company. Warranty to be as per terms of OEM . The same has to be mentioned separately by the vendors for quoted units.
7. The works shall be carried out as per the relevant CPWD / BIS Standards and attached Terms and conditions, Specifications, BOQ and drawing complete.
8. **Time Allowed:** within 28 days from date of issue of Work Order.
9. **Schedule of quantity:** As per enclosed BOQ.
10. Clause 12 of GCC CPWD is applicable for EI/SI.
11. Contractor must visit site before quoting and fully satisfy himself of the site conditions.
12. Contractor must possess valid GST registration no. Only GST compliant invoices will be accepted.
13. No T&P shall be issued to the Contractor. The contractor shall be provided with electricity and water at one point, he shall make his own arrangements for further distribution of electricity , water supply and all other labour ,tools, plant and equipment etc. as required for the works complete. Any damage done to existing walls /ceiling /floors /electrical /fire alarm/ fighting/plumbing equipment /building during execution shall be on the part of the Contractor.

14. The requisite certificates along with the Exempted. Bid Security Declaration be enclosed in Envelope-A. The applications not supported with requisite experience certificates, GST, valid DVAT certificate, TIN no shall not be entertained.
15. The priced bill of quantities kept in Envelope-B, all duly signed by the authorized signatory of the firms.
16. Payment shall be made as per actual quantities of executed works against RA/Final bills, as per CPWD norms for such works.
17. Conditional offers will not be accepted.
18. IIIT-D reserves the right to accept or reject any tender in part or whole without assigning any reasons thereof.

### **MINIMUM ELIGIBILITY CRITERIA**

1. The bidder should be an authorized dealer of any of the companies whose product is being quoted for. **A valid certificate to this effect must be enclosed.**
2. The bidder should have a minimum turnover of Rs.10 Lacs from similar works including Supply installation testing and commissioning of air conditioners during the last three audited financial years. **In this regard the bidder should submit a CA certified copy of turnover in last three financial years (FY-2018-19, 2019-20 and 2020-21).**
3. The bidder should have a full fledged service center in Delhi NCR region. **A valid certificate to this effect must be enclosed.**
4. The bidders should be registered with IIITD /Reputed agencies who have carried out similar works in Govt Deptts/PSU/Reputed Pvt sector /MNCs are to **submit the experience certificates for the works and registration certificates with Govt. Depts. if any.**
5. The agency must have executed 3 similar works of 2 lacs OR 2 similar works of 3 lacs OR 1 similar work of 4 lacs. Similar works are defined as works of Supply installation testing and commissioning of split/window/Tower unit air conditioners during last seven years. **Self- attested copies of experience certificates issued by the owners or their GM or Executive Engineer of the department concerned to be submitted.**
6. The agency should not have suffered any loss in the last two consecutive financial years. **This should be certified by the supplier.**

### **BID EVALUATION CRITERIA**

1. Those bidders' whose meets the minimum eligibility criteria, has submitted all the required documents and meet the technical and financial requirements shall be considered for opening of financial bid.

Following information must accompany the financial bid:

1	Name, address and telephone number of the firm/company	
2	Name of the contact person and contact details (mobile/telephone number etc.)	
3	Name of the Bank and full address	
4	Bank Account Number	
5	PAN and GST(Attach self-certified copy)	
6	Copy of Partnership Deed/ Certificate of registration of company or any other document evidencing registration of the bidder	
7	Number of Years of Experience	
8	<a href="#">Exempted. Bid Security Declaration</a>	<i>Yes /No</i>
9	The agency must have executed (attested copies of the experience to be enclosed) 3 similar works of 2 lacs OR 2similar works of 3 lacs OR 1 similar work of 4 lacs.  Similar works are defined as works of Supply installation testing and commissioning of split/window/Tower unit air conditioners during last seven years. Self-attested copies of experience certificates issued by the owners or their GM or Executive Engineer of the department concerned to be submitted.	
10	The agency should not have suffered any loss in the last two consecutive financial years. This should be certified by the supplier.	
11	List of service centers, nearest location of support center.	
12	Turnover of the bidder in the financial years: 2018-19 2019-20 2020-21 Please attach CA certified copy of the turnover.	

I /We hereby certify that the information furnished above is full and correct to the best of my/our knowledge.

(Signature of the authorized Signatory)  
Name:  
Office Seal.

Date:  
Place:

## **TERMS AND CONDITIONS**

1. Bid shall be valid for a period of not less than 90 days from the date of opening of bid (envelope number one).
2. Bids will be opened in the presence of bidders representatives, who choose to attend on the specified date and time.
3. Sealed bid can be sent either by post or by messenger.
4. Bidder should specify his capabilities & facilities for sales, repairing and maintenance of ACs.
5. Bidders will be responsible for covering all risk under Workmen Compensation Act for his employees /machinery on site for installation jobs. IIIT, Delhi will not be responsible for any damages whatsoever on this account.
6. In case repairs are not possible on site and required to be repaired outside our premises, all expenditure on this account would be borne by the bidder.
7. Payment will be made within one month time on successful installation, issue of satisfactory report by Officer in Charge of IIIT, Delhi and no advance payment will be made.
8. In the event of dispute, Director, IIIT, Delhi shall be the sole arbitrator and his decision shall be final and binding on both the parties.
9. The successful bidder shall be required to submit 5% of total amount of invoice as Performance Bank Guarantee (PG) within 5 days of Order, as security which will be released on expiry of the warranty period. In case, the PG is not submitted the amount of 5% shall be deducted from the bill and released only after warranty period.
10. IIIT, Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
11. The Institute is free to change the quantities for which the bid is called and the payment will be made for actual quantity installed.

## **DOCUMENT REQUIRED**

The bidders are required to submit the following information, documents, etc. for Technical Evaluation:

1. List of major contract executed i.e. giving details of type of work, name & address of clients, value of job & duration including photocopies of major orders with completion certificates.
2. CA certified copy of turnover in last three audited financial years.
3. Copies of satisfactory certificates from the clients.
4. Copies of credentials of main owner and executor of job giving details of qualifications & experience.

### **Bill of Quantities for FINANCIAL / PRICE BID**

S No	Particulars	Unit	Qty.	Rate per Unit	Total Amount (all inclusive)
1)	Supply, Installation, testing and commissioning of floor standing type tower air conditioning Unit. Condensing unit shall be complete with Scroll/Rotary /Twin Rotary type compressors with ecofriendly refrigerant and air cooled condenser with fan, Evaporator units shall consist of multi rows deep Copper cooling coil with aluminum fins, expansion device, insulated drain pan, filters, safety controls, cooling thermostat etc. complete within the unit. The enclosure shall be factory painted to a smooth finish. Quoted price shall be including of all necessary, internal wiring of air-conditioning remote controller as required. Warranty to be as per terms of OEM. The same has to be mentioned separately by the vendors for quoted units. This shall include drilling holes in wall, cutting & finishing as required. Provision of framing, ply work, glass removal and fixing of units etc. complete.				
a)	Capacity Minimum 4 TR Tower type AC including all the material required for installation, as mentioned in the Scope of work. The units to meet the Technical specifications as given below. (Suggested Makes : Daikin/ Panasonic/Carrier/Voltas /approved equivalent)	Each job	2		
b)	Capacity Minimum 2 TR Tower type AC and shall carry BEE 1 Star ratings including all the material required for installation, as mentioned in the Scope of work above complete The units to meet the Technical specifications as given below. (Suggested Makes : Daikin/ Panasonic/Carrier/ Voltas/approved equivalent)	Each job	1		
2)	Supply and installation of one pair (set) of Copper tubing along with insulation for 4 TR AC	Each Mt.	48		
3)	Supply and installation of one pair (set) of Copper tubing along with insulation for 2 TR AC	Each Mt.	24		
4)	a) Supply and installation of 6 sq.mm. X 4 Core, Copper conductor, armored Cable, 1.1 KV grade on wall / in conduit/casing capping, for 4TR Tower AC (Suggested make: Havells, Finolex, Polycab.)	Each Mt.	60		
5)	Supply and installation of 2.5 sq.mm. X 3 Core, Power Cable, Copper conductor, 1.1 KV grade on wall / in conduit/casing capping for 2TR tower AC (Suggested make: Havells, Finolex, Polycab.)	Each Mt.	30		
6)	Supply and fixing of interconnecting Cable, Copper conductor, 2.5 Sq.mm X 4 Core on wall / in conduit/casing capping for 2.0 and 4.0 Ton Tower A.C.	Each Mt.	82		
7)	Supply and Installation of Hard PVC drain pipe, Size: 25 mm Diameter.	Each Mt.	72		
8)	Providing and Fixing of MS steel stand for suspending/fixing outdoor units from wall /ceiling /floor mounting stand as required .	Each Job	3		



9) Supply and fixing of complete solution for Air Clean system with ECF,UVGI on coil and Pulse Plasma for 2 Ton Tower A.C. Make- Magneto Clean Tech, Kleen Air, Dr Air <a href="#">(For detailed description and technical sheet- refer to Annex-1)</a>	Each Job	1		
10) Supply and fixing of complete solution for Air Clean system with ECF, UVGI on coil and Pulse Plasma for 4 Ton Tower A.C. Make- Magneto Clean Tech, Kleen Air, Dr Air <a href="#">(For detailed description and technical sheet- refer to Annex-1)</a>	Each Job	2		
11) Supply and installation of (100mm x 75mm) PVC casing n caping on surface as per site condition and complete with required accessories.	Each Mt.	25		
<b>Total</b>				
GST for Item No - 1				
GST for Item No – 2 to 11				
<b>Amount Rs. (Inclusive of all charges, taxes, transportation etc. )</b>				

**Makes quoted for .....**

Signature with seal of the authorized official

Date:

## **Annexure - 1**

### **Description and technical Air Clean system with ECF, UVGI**

Supply, installation, testing, commissioning, and handing over of a central air cleaning system with high filtration efficiency on PM2.5 combined with a high kill rate on airborne infectious diseases using Ultraviolet Germicidal Irradiation. When integrated with a Tower type air conditioner, the unit is effective in reducing high concentration of airborne dust ranging from 0.1 - 10.0 um in size. It provides up to 90% filtration efficiency on PM2.5 in 1 hour of re-circulating air in 30 m3 volume as per ANSI/AHAM AC-1 standard.

The unit should be designed using an electronically charged filter (ECF) combined with Ultraviolet Germicidal Irradiation (UVGI) and bi-polar ionizer as per recommendation by ASHRAE and CDC for protection from airborne infectious diseases. The air cleaner can integrate with a wide range of standard Tower type air conditioners, to centrally capture and kill microbes, without any electrical or mechanical modifications. The filtration system should also include advanced controls for auto-airflow detection (air low sensor) for ease of application and operation. The high efficiency filtration system with very low airflow resistance of 0.06" WG at 1.5 m/s. Eliminates various types of bio-aerosols, including SARS-CoV-2\* (causing COVID-19), Influenza A (H1N1), Tuberculosis (TB), etc. Electronically Charged Filter (ECF) that is built on 3rd party lab validated Trap and Kill technology. Complies with ASHRAE's technology recommendation in ASHRAE Position Document on Filtration and Air Cleaning and CDC's recommendation in Protection from Chemical, Biological, or Radiological Attacks. Dust collection efficiency: up to 90% on 2.5 µm, in 1-hour of 30 m3 air volume as per ANSI/AHAM AC-1 standard. Designed with UV-C at 254 nm to eliminate coronavirus (SARS-CoV-2). The product must support "Make In India" with more than 50% local components. The UV-C lamp must be shatterproof with compliant coating for breakage protection. Compatible with any existing or new Tower type indoor units of any manufacturer without modification. Designed with Electronically Charged Filter (ECF) that uses electron beaming on an electrostatically charged media. Includes UL 94 (Horizontal Burn) compliant throw-away media in ECF. Completely safe with Zero UV Leak tested outside of the air conditioner.

<b>Technical Specification</b>					
Tonnage Category		TR	4.0 (Minimum)	2.0 (Minimum)	
Nominal Cooling Capacity*		Watts	12800	6200	
ISEER**		W/W	NA	3.15	
Annual Power Consumption**		KWH	NA	NA	
Minimum EER			NA	3.10	
BEE Star			NA	1	
Power Supply			3 Phase, 380~415 V, 50 Hz	1 Phase, 230 V, 50 Hz	
<b>Indoor unit</b>	Airflow	H/L	m <sup>3</sup> /h	1802/1595	1202/1095
	Sound Level	H/L	dB(A)	57/52	57/52
	Net Dimension	Unit (WxDxH)	mm	550x350x1800	510x355x1750
	Net Weight	Unit ( Net / Gross Weight )	Kg	50.5/60.6	38/49.5
<b>Outdoor unit</b>	Compressor		Type	Scroll/Rotary/Twin Rotary	Scroll/Rotary/Twin Rotary
	Refrigerant Charged for 5 meters		Type	R410A / R32	R410A / R32
	Net Dimension	Unit (WxDxH)	mm	1095x450x795	870x355x600
	Net Weight	Unit ( Net / Gross )	Kg	83.75/93.1	42/48
	Operating Temp Range		°C	18 ~ 50	18 ~ 50
Pipe connections	Liquid (Flare)		mm/Inch	Φ9.52 - 3/8"	Φ6.35 - 1/4"
	Gas (Flare)		mm/Inch	Ø19.05 - 3/4"	Φ15.87 - 5/8"
	Drain		mm/Inch	OD Φ25 - 1"	OD Φ25 - 1"
Max. Inter-unit Pipe Length			meters	30	30
Max. Installation Level Difference			meters	15	15
Standard Controller				Wired Controller	Wired Controller

# Nominal Cooling/Heating capacity.

\* All specifications as per IS1391 (Part 2) : 1992 Room air-conditioner.

\*\* BEE (Bureau of Energy Efficiency) an autonomous body under Ministry of Power, Government of India, started this initiative of star rating basis ISEER ranging from 1 Star to 5 Star, Annual Electricity Consumption (Units of kWh basis 1600 hrs), Applicable upto 3.0TR 1PH product.

**“Exempted Bid Security Declaration Form”**

Date: \_\_\_\_\_ Tender No. \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid;
- or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Security Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: \_\_\_\_\_ (signature of person whose name and capacity are shown)

Name: (complete name of person signing he Bid Security Declaration)

Duly authorized to sign the bid for an on behalf of (complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (date of signing)

Corporate Seal