

**INDEPENDENT UNIVERSITY, BANGLADESH
TENDER ENQUIRY SCHEDULE**

Installation Location: Plot # 16, Block # B, Aftabuddin Ahmed Road, Bashundhara R/A, Dhaka.

INDEPENDENT UNIVERSITY, BANGLADESH (IUB) invites sealed quotations for supply, installation, testing and commissioning of VRF air-conditioning with Fresh Air System for student club room at the semi basement of building-1, IUB under the following terms and conditions:

1. Date and Time of Closing and Opening Tender:

Tender will be received up to 12:00 noon on May 13, 2019
Tender will be opened at 2:30 pm on May 13, 2019

2. Place of Submission of Tender: Tender will be submitted in the Purchase Department, Independent University, Bangladesh at Plot # 16, Block # B, Aftabuddin Ahmed Road, Bashundhara, Dhaka-1229.

3. Sealing And Marking Of Tender: *The tender shall be submitted in sealed envelope, which shall be sealed and marked for the item on top and addressed to the Purchase Department of IUB.*

4. Earnest Money: The tender must submit an earnest money equivalent to 2.5% of the total quoted value in the form of pay order / bank draft in favor of Independent University, Bangladesh, **without which the bid shall be rejected.**

5. Work Completion Time: Work Completion time will be 105 Calendar days. ***But, the local materials should be supplied, fabricated & installed within 30 days of issuing the Work Order.***

6. Validity of Offer: The price offer shall be kept firm and valid until forty five (45) days for consideration by the university.

7. Clarification of Tender: To assist in examination, evaluation and comparison of offers, the university may at its discretion ask the bidder for any clarification of the tender. The request for such clarification and the response thereto shall be made in writing and no charge in the price or substance of the tender shall be sought, offered or permitted.

8. Buyer's Right To Accept or To Reject Tender: The buyer reserves the right to accept or to reject any or all the tenders and to annul the bidding process prior to award of order / contract without assigning any reason whatsoever and also is not bound to accept the lowest tender.

9. Buyer's Right To Increase or Decrease Quantity: The buyer reserves the right to increase or decrease the quantity of goods without any change in price and other terms and conditions at the time of placing order/ contract and it shall be binding on the successful bidder to accept order/ contract for the increased or decreased quantity at the quantity quoted price(s). For any new item which is not stated in their offer the price or the rates of the same may be negotiated or the market price will prevail.

10. Late Delivery And Liquidity Damage: In case the supplier/contractor fails to deliver the goods within the stipulated delivery period, the buyer shall be entitled at their option either to pay @ 0.10% of the quoted value per day from last date of delivery and total amount is not to exceed 10% of the contract price.

11. Payment Mode: The payment will be made to the Contractor, within 30 days from the date of receiving the Bill, subject to submission of the Bill properly. The Schedule of the Payment is as follows:

- a) 25% of the Contract Price may be given as Mobilization Advance (After Agreement) against an unconditional and irrevocable Bank Guarantee from a scheduled Bank of Bangladesh. The aforesaid Bank Guarantee will be valid up to 60 days, after completion of the works.
- b) 35% of the Contract Amount will be paid after delivery of all goods (local & imported items) at site with supporting documents.
- c) Final Bill will be paid, after successful Installation, Testing, Commissioning & Handing-over of the Work and after checking & Certification by the concerned Engineers.

12. Assessment of Tender: The assessment of offer shall be made on the basis of tender terms, price, technical specification, country of origin, delivery schedule and any advantageous to the buyer.

13. Award of Order / Contract:

- The buyer will award the order / contract to that successful bidder whose offer has been considered to be substantially responsive. The buyer will not be bound to award the contract to the lowest offered.
- A substantially responsive bid is one, which conforms to all the terms, conditions & specifications of the bidding document and offers a competitive price for their product. If a bid is not substantially responsive, it will be rejected by the employer.

14. Contract Agreement: The Contractor will be required to execute a formal Contract Agreement with IUB in two sets of non-judicial stamps worth Tk. 300 each set within 7 (seven) days from the date of receiving this Work Order.

15. TAX & VAT: The quoted price shall be inclusive of all TAX, IT, VAT dues payable to the Government agency as per the Bangladesh Government's rules.

16. Installation & Certification: The supplier will be liable for the installation of the items delivered to the buyer. The installation of these items will be supervised & certified by the concerned authorities of the buyer. If any item is found defective and not as per the desired specification or standard, the vendor will promptly replace the same at his own cost. Additionally, the supplier should ensure the following works during supply and installation of the equipment.

- Qualified and experienced person should carry out the works to ensure trouble free operation of the system in maximum efficiency.
- The vendor will submit the specifications / sample of the machines / parts / materials in detail for confirmation by the employer before starting the work. (If required)

17. Warranty Period: The warranty period shall be minimum two (2) years for all items of the system.

18. As-Built Drawing: The Contractor should submit 2 (Two) sets of "As-Built Drawing" before submission of the Final Bill.

19. Security Deposit: 10% of the billed amount will have to deposit as security money for two years, which will be released after this period is over.

20. Termination & Cancellation: If the contractor does not carry out his duty under this agreement for any unjustifiable reason, the employer is entitled to terminate this agreement by written notice.

21. Instruction To Bidders:

- The successful bidder shall deliver the goods within the scheduled time in accordance with the applicable terms & conditions.
- **Documents to be submitted by bidder with the quotation are as follows (Must):**
 1. Trade License of the Company/ Firm.
 2. VAT Registration Certificate (Must)
 3. List of major clients the supplier offered services / supplied. (Must)
 4. Authorized Distributorship Certificate of the Products from the Principal (Must)
 5. TIN Certificate (up to date)
 6. If any require by the buyer, the vendor will provide the documents Bill of Landing and P.S.I certificate etc. (Must)
- For any other information regarding the work, the contractor / suppliers may contact the Purchase Department during the office hour between 9.30 a.m to 4 p.m Sunday through Thursday.

- 22. Dispute:** If any disputes or differences of any kind will arise between the parties in connection with and arising out of the agreement for the execution & completion of the works, it will be referred to an Arbitrator agreeable to both parties.
- 23. Vendor's Risks:** Any risks involving damage to physical property, of personal injury & death arising during & in consequence of the performance of the contract other than the accepted risks is the responsibility of the vendor
- 24. Possession of the site:** The employer will give possessions of the site required by the vendor in order to carry out the work.
- 25. Access to the site:** The vendor will allow at all times the employer, any person authorized by the employer access to the site & to any place where work in connection with the contract is being carried out or is intended to be carried out.
- 26. Safety:** The vendor will be responsible for the safety of all activities on site.
- 27. Special conditions:** No conditional offer will be accepted.
- 28. Visiting the site before submitting the tender:** The Contractors must visit the site before submitting their quotations. Contractor will be responsible for materials loading & unloading at site & any civil works
- 29. The bidder will furnish the following information in details:**
- i. Country of Origin and Assemble (Must)**
 - ii. Brand Name
 - iii. Warranty Period (machine, compressor & spare parts, after sales services)
 - iv. Original Catalog (Master Copy)

- N.B: 1. See specification and instruction to the bidder for detail.**
2. Each page of the bid will be signed & authenticated by authorized official

BILL OF QUANTITY (BOQ)

30. Details Technical Specification And Quantity For Supply, Installation, Testing And Commissioning Of VRF Air-Conditioning With Fresh Air System For Student Club Room At The Semi Basement Of Building-1, IUB

S/N	Description of Items	Qty.	Unit Price (Tk.)	Total Price (Tk.)
1.0	VRF AIR CONDITIONING SYSTEM			
	<p>Supply, installation, testing and commissioning of Variable Refrigerant Flow (VRF) type air conditioner with Cassette & Ducted Type indoor units. Condensing unit set for multiple indoor units. Condensing unit shall be complete with air cooled condenser with propeller type condenser fan(s), inverter controlled scroll compressor(s), receiver, filter driers, control valves and controls. Each indoor unit shall be complete with evaporator coil with centrifugal type evaporator fans with motor, expansion device, air filter, condensate drain pan, condensate pump, thermostat, 3-speed fan(s) and control accessories complete in all respect. The cooling capacity of the VRF condensing units shall be based on 98°F ambient air temperature.</p> <p>The unit shall be fully factory tested and charged with refrigerant R-410A charge and compressor oil. Power supply shall be 380~415V/3Ph/50Hz or 220V/1Ph/50Hz. Installation of units shall be complete in all respect including supply and installation of copper pipes, insulation, condensate drain pipes and necessary cables for wiring of the units including all other items required to complete the proper installation of equipment's, as per direction of engineer-in-charge.</p>			
	<p>Brand: Daikin / General / Panasonic / Hitachi / Mitsubishi / York Country of Origin: To be proposed by the vendors Assembly : Thailand / Malaysia / EU / Japan Cooling Capacity: To be proposed by the vendors</p>			
1.1	SYSTEM- A/1			
	<p>Condensing Unit Cooling Capacity: 17.50 - 18.00 TR (61.5-62.5 KW) Model: To be proposed by the vendors</p>	1 Set		
2.0	VRF SYSTEM INDOOR UNITS (EVAPORATING UNITS)			
2.1	DUCTED TYPE FAN COIL UNITS (FCU)			

	Supply, installation, testing and commissioning of Ceiling Mount Hideaway type Fan Coil Units having cooling capacities as mentioned below. Each unit shall be completed with refrigerant pipe coil, centrifugal fan, insulated condensate tray (extended over the length of valve connections), air filter, thermostat, 3-speed control switch etc. Installation of units shall be complete in all respect including supply and installation of copper pipes, insulation, condensate drain pipes and necessary power & control cables for wiring of the units including all other items required to complete the proper installation of equipment's, as per direction of engineer-in-charge. The unit shall operate when supplied with 220V~250V/50Hz/1Ph power.			
	Brand: Daikin / General / Panasonic / Hitachi / Mitsubishi / York Country of Origin: To be proposed by the vendors Assembly : Thailand / Malaysia / EU / Japan Cooling Capacity: To be proposed by the vendors			
2.1.1	FCU			
	Total cooling capacity: 30000 - 36000 Btu/hr (2.5 - 3.0 TR) Air flow (CFM): H/ M/ L = Sound Pressure Level (dB): H/M/L= Model: To be proposed by the vendors	1 Nos		
2.2	4-WAY CASSETTE TYPE INDOOR UNIT			
	Supply, installation, testing and commissioning of 4-Way Cassette type Fan Coil Units having cooling capacities as mentioned below. Each unit shall be completed with refrigerant pipe coil, insulated condensate tray (extended over the length of valve connections), air filter, thermostat, 3-speed control switch etc. Installation of units shall be complete in all respect including supply and installation of copper pipes, insulation, condensate drain pipes and necessary power & control cables for wiring of the units including all other items required to complete the proper installation of equipment's, as per direction of engineer-in-charge. The unit shall operate when supplied with 220V~250V/50Hz/1Ph power.			
	Brand: Daikin/General/Panasonic/Hitachi/Mitsubishi/York Country of Origin: To be proposed by the vendors Assembly : Thailand / Malaysia/ EU/Japan Cooling Capacity: To be proposed by the vendors			
2.2.1	FCU-B			
	Cooling capacity: 18000 Btu/hr (1.50 TR) Air flow (CFM): H/ M/ L = Sound Pressure Level (dB): H/M/L= Model: To be proposed by the vendors	10 Nos		

3	CONTROLLING SYSTEM			
	Supply, installation, testing and commissioning of Central Control System to control operation of outdoor units and remote units to control indoor units along with all accessories.			
3.1	Wired Remote Controller. Model: <i>To be proposed by the vendors</i>	1 Nos		
3.2	Wireless Remote Controller. Model: <i>To be proposed by the vendors</i>	15 Nos		
4	REFNET JOINT			
	Supply, installation, testing and commissioning of Ref Net Joint. Brand: <i>To be proposed by the vendors</i> Pipe & Multi kits: <i>To be proposed by the vendors</i> Model: <i>To be proposed by the vendors</i>	11		
5	COPPER PIPES FOR VRF SYSTEM			
	Supply, installation, testing and commissioning of Copper Pipes with minimum 13mm thick nitrile rubber insulation for VRF System as per drawing. Brand: <i>Superlon</i>			
5.1	Ø 9.5 mm	130 Rft		
5.2	Ø 12.7 mm	130 Rft		
5.3	Ø 15.9 mm	130 Rft		
5.4	Ø 19.1 mm	70 Rft		
5.6	Ø 25.4 mm	60 Rft		
5.7	Ø 28.6 mm	100 Rft		
6	Condensate Drain piping with insulation including all civil works for VRF AC Brand : <i>National / RFL / Equivalent</i> Origin : <i>Bangladesh</i>	1 Lot		
7	Testing, commissioning & balancing complete with complying the General & Technical Specification, drawing-design and accepted by the Engineer-in-charge	1 Job		
8	SHEET METAL DUCTING (FOR FRESH AIR)			
	Duct works include Tees, bends, elbows, reducers, offsets, etc. with prime quality sheet. The ducts shall be complete with necessary angle, flange bracing. Stiffeners etc. made of M.S. Angle / Flat bar. Approved sealant shall have to be used to make duct leak proof. Before installation duct inside shall be cleaned. All hangers shall have to be painted with red oxide paint.			
	Duct made of 24 SWG sheet	500 Sft		
9	SHEET METAL DUCTING WITH INSULATION			
	Duct works include Tees, bends, elbows, reducers, offsets, etc. with prime quality sheet. The ducts shall be complete with necessary angle, flange bracing. Stiffeners etc. made of M.S. Angle / Flat bar. Approved sealant shall have to be			

	used to make duct leak proof. Before installation duct inside shall be cleaned. All hangers shall have to be painted with red oxide paint. Duct insulation of 15mm thick Poly Elastomeric Foam insulation with Thermal conductivity i.e. K value shall not be more than 0.25 Btu.in/ft2h0 F at 50 to 90 F mean temperature. Insulation shall have Aluminum Foil pasted vapor barrier. Use self-adhesive Aluminum tape, glue and all other accessories for fixing insulation. Before fixing duct surface shall be cleaned properly. Air gap below insulation will not be permitted. A saddle made of 24 SWG GP sheets of 150mm width to be used between insulation and Duct Hanger.			
	Duct made of 24 SWG sheet, Insulation thickness 12 to 18 mm	500 Sft		
10	VOLUME CONTROL DAMPER			
	Round type damper shall be constructed with extruded aluminum with powder coating finishing. Size: 6"	6 Nos		
11	FLEXIBLE DUCT			
	Duct connected with Air Terminals shall be done with necessary accessories. Size dia: 6"	50 Rft		
12	CANVAS CLOTH CONNECTION			
	Canvas cloth connection shall be completed by the necessary accessories with Indoor Unit	8 Rm.		
13	AIR DIFFUSER			
	Air terminals shall be constructed with extruded aluminum with powder coating finishing. Thickness shall be not less than 20 SWG. Size: 6"x6"	10 Nos		
14	RETURN AIR GRILLE			
	Air terminals shall be constructed with extruded aluminum with powder coating finishing. Thickness shall be not less than 20 SWG. Size: 6"x6"	10 Nos		
15	AIR LOUVER			
	Air terminals shall be constructed with extruded aluminum with powder coating finishing. Thickness shall be not less than 20 SWG. Size: 30"x12"	2 Nos		
Total Amount:				

(In word: Taka.....Only)

Note: Quantity mentioned for items are approximate. Payment will be made based on actual work measurement.