

NOTICE INVITING QUOTATION

Name of work: Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport-reg.

Sealed quotations are invited by the Project Engineer- Electrical on behalf of the Managing Director, Kannur International Airport Limited from Manufacturers/Authorised agencies for Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport so as to reach before 3 pm on 24/07/2020 at the office of Project Engineer-(E), Kara Peravoor, Mattannur, Kannur, Kerala-670702.

GENERAL TERMS AND CONDITIONS OF THE WORK:

The agency should submit their sealed quotation in Two Envelope System. Envelope A-Technical Bid and Envelope B-Price Bid. Duly signed, stamped and sealed Bids shall be submitted in the following pattern: -

Envelope A- (TECHNICAL BID):

To be superscribed on Envelope A as “Technical Bid for Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport.

The envelope A should contain the following documents / details in addition to other documents that the bidder like to enclose.

1. Earnest Money Deposit of Rs.50,000/- in the form of Demand Draft favouring Kannur International Airport Limited payable at Mattannur.
2. Technical Brochures, Technical Specification sheet of UVGI Disinfection System offered by the bidder in reference to Specifications as per Annexure-I.
3. Copy of GST Registration Certificate & PAN Card.
4. Copy of Test Certificate from a NABL Accredited lab for the offered UVGI System.
5. A certificate of guarantee for availability of spares and after Sales Service at least for a period of 24 months after commissioning.
6. Duly signed copy of Unconditional Acceptance letter as per Annexure II.
7. Copy of Registration of the firm.
8. Copy of similar works completed and works in hand.
9. Client certificate if any.

Envelop-B (PRICE BID)

To be super-scribed as “Price bid for Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport” and shall contain price Bid duly filled, stamped and signed in the given format as per Annexure-III.

Any deviation from the format will not be accepted.

Technical Bid (Envelope-A) and the Price Bid (Envelope-B) will be opened on the same date. Technical Bid will be opened first and the price bid will be opened for those party/agency only whose Technical Bid is accepted by Kannur Airport on satisfaction of documents mentioned under Envelope-A. In case the verification of Technical bid is not completed in the same date the financial bid will be postponed to next working day.

TERMS AND CONDITIONS:

1. RATES

Rates quoted shall be inclusive of packing, forwarding loading & unloading and Transportation charges, Transit insurance etc. but exclusive of GST which will be paid extra on submission of GST Invoice. The offer shall be valid for a period of 90 days from the date of opening of the quotations.

2. Kannur International Airport is not responsible any postal delay in receipt of quotation. The bidder should ensure that the quotation reaches on or before the due date and time.

3. The equipment/system should be covered by 24 months Defect Liability Period from the date of successful commissioning of the UVGI system. Any failure/defect noticed during Defect Liability Period will be attended to by the agency free of cost which will include replacement cost of any spare parts including UV lamps, failing which it will be got rectified by Kannur Airport at the risk and cost of the agency and expenditure incurred will be covered from the Security Deposit of the agency.

4. PAYMENT TERMS: Payment will be released by Kannur Airport after supply, installation testing & commissioning of the UVGI system subject to deductions/recoveries (if any) towards Security Deposit, TDS etc. Kannur Airport does not entertain any request for advance payment. Security deposit will be deducted at the rate of 10 % of the awarded amount.

The payment will be released by Kannur Airport subject to the submission of the following documents:

- Signed Commercial GST Invoice in original (Two Copies).
- Site Testing & Commissioning Reports.
- Copy of GST certificate.
- Copy of PAN card.
- Guarantee/Warranty Card, User Manual, Product Test Certificates.
- Bank mandate form for RTGS/NEFT. (Annexure – IV)
- The payment will be released within 30 days from the bill submission date.
- Part bill will be allowed only once.

5. The period for completion of the work shall be two months which shall be reckoned from the 15th day after the date of work order/ Letter of Award is issued.

Delays & Non-conformance: In case of non-completion of the work originally agreed upon by Kannur Airport and not being adhered to by the agency, the following procedure shall be applicable.

- a) The agency shall give reason for delays and apply for extension of time.
- b) Kannur Airport may extend the completion period without liquidated damages if the reason given by the agency are found justified. Otherwise period of work may be extended with levy of liquidated damage @1% of the award value per week of delay subject to maximum of 10% of award value. Part of a week shall be Treated as one whole week.

6. SECURITY DEPOSIT:

The Security Deposit shall be 10% of the award value & the same will be deducted from the bill/payment. The security deposit in the form of Bank Guarantee from scheduled bank in the prescribed format is also accepted. The security Deposit is intended to secure the work done against any failure/defect noticed during Defect Liability Period.

The Security Deposit shall be released after successful completion of Defect Liability Period. No interest will be paid by Kannur Airport on Security Deposit.

7. If the material is rejected for any reason the agency has to replace the material at firms own cost and risk.

The Technical Bid and Price Bid in separate sealed envelopes along with Brochures, Drawing, Specifications, NIQ documents and other technical details of the product should be sent in a sealed envelope, super scribing on the top “Supply, Installation, Testing & Commissioning of UVGI system for HVAC System at Passenger Terminal Building of Kannur International Airport Limited” to the Project Engineer- Electrical, Kannur International Airport, Mattannur, Kannur- Pin 670702, on or before **24/07/2020 up to 1500 Hrs.** The sealed quotations will be opened on the same day i.e. on **24/07/2020 at 1600 Hrs.**

Interested participants may remain present during quotation opening.

8. Entry pass shall be arranged by the firm at their cost for their staff for working inside the terminal building.
9. No storage facilities will be given by Kannur Airport.
10. Spare parts/consumables to be made available at site once work is completed.
11. An affidavit to be given stating that the system is not harmful for the human being present in the area fed by the air-conditioning system.

TECHNICAL SPECIFICATIONS

This specification covers the technical requirements for the Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport. The system shall be of proven design and capable of meeting the requirements without any difficulty or problem whatsoever. Hence the technical specifications mentioned in the following pages shall be complied to ensure best quality product for Kannur Airport International Airport.

1. STANDARDS

The design, manufacture and testing of the UVGI System shall comply with the latest editions of relevant standards and as per guidelines issued by ISHRAE. Unless mentioned otherwise, all applicable codes and standards in their latest editions as published by the Bureau of Indian Standards shall govern in respect of design, workmanship and properties of materials and methods of testing. In case where suitable Indian Standards are not available, generally accepted codes and practices shall be adopted. All equipment shall comply with the statutory requirements of the Govt. of India and Government of Kerala.

2. TECHNICAL REQUIREMENTS.

- i. The UVGI (Ultraviolet Germicidal Irradiation) system shall be suitable to be installed at the coil section and duct section- (Supply Air duct & Return Air duct) of the Air Handling Units (AHU) / Ceiling suspended units (CSU).
- ii. The UVGI system shall be inclusive of lamp, ballast and all other accessories for the operation of the system.
- iii. The system shall be able to control from outside of AHU/CSU.
- iv. Test Certificate from NABL Accredited laboratory for the UVGI system shall be submitted along with the offer.
- v. The design of the UVGI system for each AHU/ CSU shall be submitted for approval before implementation.
- vi. All materials including UV lamps of approved ISI makes shall be used in the work.
- vii. Power supply will be made available at one point by Kannur Airport. The agency has to tap power for the system from this source at their cost.
- viii. The system shall be designed for providing adequate germicidal dosage for air stream or surface disinfection with 10000 $\mu\text{W.S/ sqcm}$ as dosage to kill the bacteria and for viruses range from 2000 to 8000 $\mu\text{W.S/ sqcm}$.
- ix. The UV-C lamps (253.7 nm) used shall be high intensity alkaline UV lamps or equivalent suitable for destroying air borne microbes including virus, moulds and bacteria.

3. SUPPLY OF MATERIALS

- i. The materials shall be supplied and delivered by the agency at Kannur International Airport.
- ii. Transport, loading and unloading and shifting shall be done by the agency and Kannur Airport will not bear any expense for the same.
- iii. All required man power and tools for loading, unloading, shifting of materials shall be done by the agency.

4. INSTALLATION OF UVGI SYSTEM.

- i. All UVGI systems shall be installed by the agency in the AHUs & CSUs.
- ii. All required manpower and tools for the installation shall be supplied by the agency.
- iii. The time slot for the installation of UVGI system at AHUs/ CSUs depends on Flight Operation timings of the Kannur International Airport.
- iv. The work shall be executed in coordination with Kannur Airport O & M contractor M/s. L&T (B&F) and Kannur Airport Engineers without affecting the normal operation of the Airport.
- v. During installation no damage to the existing AHUs/ CSU or any other structures shall be done. If any damage of the above is done, necessary rectification shall be done by the agency at their cost, failing which suitable recovery shall be done from their bills.

5. TESTING & COMMISSIONING.

- i. Air quality shall be tested and demonstrated before and after the operation of the UVGI system in each AHU/ CSU and certificate shall be furnished as per standards for all locations. The procedure shall be repeated once in 6 months.

6. MAINTENANCE

- i. The installed UVGI system shall be maintained for 24 months from the date of commissioning.
- ii. Adequate man power and tools shall be supplied for periodic maintenance as per OEM Practice.
- iii. All failures of the system including replacement of the burned out UV lamps shall be attended immediately. A penalty of Rs.1000/- per day will be levied if the complaints are not attended with 2 days.
- iv. Tools & adequate spares shall be maintained always at site and the technician shall be available on call.

7. Equipment Details

Kannur Airport					
Sl. No	Description	Quantity (Nos)	Duct Forward Size (AHU Discharge)	Duct Return Size (RA Plenum Suction)	Coil Size (filter area)
AHU					
1	75TR	4	1050x1006 (2 nos per unit)	W3850-H2450-L1130	3660x2135
2	60TR	6	1266x1266	W3350-H2320-L1130	3050x2135
3	55TR	2	1226x1266	W2960-H2240-L900	2745x2135
4	40TR	6	1150x1130	W2600-H2060-L1130	2440x1830
5	30TR	8	940x898	W 2310-H1750-L900	2135x1525
6	25TR	4	940x898	W2350-H1460-L1130	2135x1220
7	20TR	2	840x800	W1930-H1450-L1130	1830x1220
8	15TR	1	638x638	W 1680-H1440-L600	1525x1220
CSU					
1	1.5TR	12	230x259	W450-H405-L790	610X305
2	2.0TR	8	230x259	W450-H405-L790	610X305
3	2.5TR	5	230x259	W550-H405-L790	610X305
4	3.0TR	7	230x259	W600-H610-L790	610X510
5	4.0TR	2	330x298	W550-H400-L790	610X510
6	5.5TR	14	314x309	W800-H710-L1705	915X610
7	8.5TR	1	330x926	W1100 -H710-L400	1525X510
8	11.0TR	1	341x862	W980-H670-L400	1525X510

Unconditional Acceptance Letter

ACCEPTANCE LETTER

(Duly filled copy to be submitted in Envelope A: Technical Bid)

To
The Managing Director,
Kannur International Airport Limited (Kannur Airport),
Mattannur, Kannur District
KERALA STATE – 670702

SUB:- Acceptance of Terms & Conditions of Quotation

Name of work: Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport- reg.

Quotation no: KIAL/PE/HVAC/UVGI/2020/135 dated 13 July 2020.

Dear Sir,

1. The quotation document for the works mentioned above have been issued to me/us by Kannur Airport and I / we hereby certify that I / we have read the entire terms and conditions of the quotation document available in the website www.kannurairport.aero, I/ we shall abide by the conditions /clauses contained therein.
2. I / We hereby unconditionally accept the quotation conditions of Kannur Airport's quotation document in its entirety for the above works and in case we have put forth any conditions same may be treated as withdrawn.
3. After unconditionally accepting the quotation conditions in its entirety, it is not permissible to put any remarks/conditions (except unconditional rebate on price, if any). In case the provision of the quotation is found violated after opening the quotation submitted, I agree that the quotation shall liable to be rejected.
4. That, I have not paid and will not pay any bribe to any officer of Kannur Airport for awarding this work at any stage during its execution or at the time of payment of bills, that, if any officer of Kannur Airport asks for bribe/ gratification, I will immediately report it to the appropriate authority in Kannur Airport.
5. Conditions of work for Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport, have been read by me and same is acceptable unconditionally.

Yours faithfully,

AUTHORIZED SIGNATURE :
NAME OF THE SIGNATORY :
NAME & ADDRESS OF THE TENDERER :
OFFICIAL SEAL & Date :

To be submitted in Envelop B**PRICE BID**

Name of the work: Supply, Installation, Testing & Commissioning of UVGI system for the HVAC System at Passenger Terminal Building of Kannur International Airport.

Sl No.	Description	Unit	Quantity	Rate in Figures	Rate in words	Amount (Rs.) in Figure
1	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity -75 TR , 41300 CFM	No	4			
2	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity - 60 TR , 33300 CFM	No	6			
3	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity -55 TR , 41300 CFM	No	2			
4	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity - 40TR, 22000 CFM	No	6			
5	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity - 30 TR, 16500 CFM	No	8			

6	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity – 25 TR , 13800 CFM	No	4			
7	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity – 20 TR , 11000 CFM	No	2			
8	Supply, Installation, Testing & Commissioning of UVGI system for Air Handling Unit of capacity of – 15 TR, 8300 CFM	No	1			
9	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit capacity – 1.5 TR , 600 CFM	No	12			
10	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit capacity – 2 TR, 800 CFM	No	8			
11	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit capacity – 2.5 TR, 1000 CFM	No	5			
12	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit capacity – 3 TR , 1200 CFM	No	7			

13	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit of capacity – 4 TR, 1600 CFM	No	2			
14	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit of capacity – 5.5 TR , 2200 CFM	No	14			
15	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit of capacity – 8.5 TR , 3400 CFM	No	1			
16	Supply, Installation, Testing & Commissioning of UVGI system for Ceiling Suspended Unit of capacity – 11TR , 4400 CFM	No	2			
Total Amount						
Total Amount in words: _____						

Note: 1) Please refer sl. no. 7 of Technical Specifications for coil size/duct size of AHU/CSU.

2) Rate quoted shall be excluding GST and inclusive of packing, forwarding, transportation charges, loading and unloading, Transit insurance etc.

Authorized Signatory:

Name of the person:

Stamp/Seal of the Company:

Place:

Bank Mandate Form

(Mandate for receiving payment through NEFT/RTGS from Kannur International Airport Limited)

1	Vendor Name	
2	Permanent Account Number (PAN)	
3	Particulars of Bank Account	
	• Name of the Bank	
	• Name of the Branch	
	• Branch Code	
	• Address Line1	
	• Address Line2	
	• City	
	• Telephone Number	
	• NEFT/IFSC Code	
	• 9 digit MICR code appearing on the cheque book	
	• Account Number	
4	Vendor's email ID	
5	Effective Date of Bank Account	

(Please enclose a xerox copy of a cancelled cheque book to enable us to verify the details mentioned above and a copy of the PAN card)

We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the company responsible. _____

Signature of the Vendor _____