

Tender cost: Rs.1500/-

TENDER DOCUMENT

For

**Performance Analysis of Thermal Comfort and Sustainability Analysis
of Heritage Buildings
(2020-2021)**



General Terms and Conditions

#Validity of rates must be for minimum 8 months.

#Warranty period 12 Months (free of cost).

#Performance security 5% will be deducted at the time of payment, with will be released returned after successful working of equipment/software for a period of six months.

#Supply will be done within 30 days from the date of order.

#In case of unjustified delay, liquidity damages will be deducted @0.01% per day.

#Tender cost is Rs.1500/- which is to be deposited along with tender in the form of DD in favor of the Director, MITS Gwalior

1. Quotation,
 - 1.1 The contract shall be for the full quantity as described in the tender.
 - 1.2 Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
 - 1.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 1.4 Applicable taxes shall be quoted separately for all items.
 - 1.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - 1.6 The Prices should be quoted in Indian Rupees only.
2. Each bidder shall submit only one quotation.
3. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

 - 3.1 are properly signed and
 - 3.2 Confirm to the terms and conditions, and specifications.
4. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest price for the item.

 - 4.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - 4.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
5. Payment shall be made in Indian Rupees as follows:

Delivery, Installation, training and Satisfactory Acceptance - 95% of total cost.
The performance security (5% of basic cost of order value) will have to be deducted from the payable amount and will be returned after successful working equipment/software for a period of six months.
6. You are requested to provide your offer latest by **14:00 hours on 25/01/2021. The Technical bid of offers will be opened at 14:30PM on 25/01/2021. The commercial offer of technically eligible bidders will be opened at 15:00PM on 25/01/2021.**
7. All supplied items are under warranty of 12 months or higher with support and maintenance (free of cost) from the date of successful acceptance of items.
8. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
9. The Vendors must enclose OEM certificate/authorized channel partner /authorized distributor/authorized dealer.
10. The vendor must submit the GST certificate and ITR of last three years.

11. Vendor must produce a certificate with his seal and sign on his letter head that he accept all the terms and condition in the invitation letter.
 12. If items are not supplied within time line, paneling may be imposed on the supplier.
 13. Training Clause: Seller has to arrange the training with course material(if required) at MITS, Gwalior without any extra payment
 14. Testing/Installation Clause: Seller has to install the equipments successfully at MITS, Gwalior without any extra payment
 15. **Sealed quotation to be submitted/ delivered at the address mentioned below,**
Director, Madhav Institute of Technology & Science,
Gola Ka Mandir, Residency Road Gwalior-474005(M.P) India
 16. **Please Mention the following things on the top of the envelop**
 - i. **Name of the project along**
 - ii. **Last date of Submission**
 17. The outer sealed envelope must specify the **PACKAGE NAME**. There must be two sealed envelope inside it. The first sealed envelope must be marked as **ENVELOPE – 1**. It must contain following documents:
 - GST certificate
 - ITR of last three years
 - OEM certificate/authorized channel partner /authorized distributor/authorized dealer certificate
 - Product catalogue
 - Work experience in the same domain if any
 - **EMD (Rs. 12,000/-) in the form of DD in favour of the Director, MITS Gwalior.**
- The second sealed envelope must **only contain the financial bid** (marked as **ENVELOPE – 2**). The second envelope will only be opened when the committee finds the offer as technically suitable as per our terms and conditions.
18. The vendor must seal and sign on each page of tender document.
 19. The Institute reserve the right to cancel the tender without any notice.

DIRECTOR

It is certified that, the (Firm name), agree all the terms and conditions of the tender. We know that in case of any deviation from the terms and conditions our offer will be cancelled.

Vendor Name, Seal and Sign with Date

Madhav Institute of Technology & Science, Gwalior – 474005
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

INVITATION FOR QUOTATION

Name of the Department: Architecture/Town Planning

Name of the Project/Package: Performance Analysis of Thermal Comfort and Sustainability Analysis of Heritage Buildings

S N	Item name*	Qty	Make	Model	Unit Rate without GST (in Lakhs)	Total Cost without GST (in Lakhs)	GST %	Total Cost with GST
1.	Solar Combo	01						
2.	Solar AC	01						
3.	Flat Plate Collector	04						
4.	Data Logger (12 Channel)	01						
5.	Temperature Measuring Instrument	02						
6.	Hygrometer	01						
7.	Luxmeter	02						
8.	Thermal Image Sensor	01						
GRAND TOTAL WITHOUT GST								
GRAND TOTAL WITH GST								

Price must be inclusive of supply, installation, commissioning and training.

Detailed specifications are attached.

It is certified that, the (Firm name), agree all the terms and conditions of the tender. We know that in case of any deviation from the terms and conditions and specifications, will cancel our offer.

Vendor Seal and Sign with Date

Madhav Institute of Technology & Science, Gwalior – 474005

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Name of the Department: Architecture/Town Planning

Name of the Project/Package: Performance Analysis of Thermal Comfort and Sustainability Analysis of Heritage Buildings

Detail Specification

S.No	Item Name	Detailed Specifications
01.	Solar Combo	<ul style="list-style-type: none">Capacity:150 AhUsable current from grid:24 AWattage:270 WSystem Power:2 Kw
02.	Solar AC	<ul style="list-style-type: none">Configuration: 1 Tonne (workable on PV pannel)Cooling Capacity: 3500 WAir circulation: 500 m3/h
03.	Flat Plate Collector	<ul style="list-style-type: none">Conversion Factor: $\geq 75\%$Absorber Coating: TiNOx, high selectiveCasing: AluminiumInsulation: Rock Wool, $\geq 50\text{mm}$Collector Glazing: solar safety glass 3.2mmPermissible Collector Tilt: $25^\circ - 65^\circ$Surface area: 2 m^2
04.	Data Logger (12 Channel)	<ul style="list-style-type: none">12 channel, 64 bit, 1 sec to one week sample rate, USB storageSensor Accuracy- $\pm 2\%$
05.	Temperature Measuring Instrument	<ul style="list-style-type: none">Type K Thermocouple (Nickel-Chromium / Nickel-Alumel)Temperature Range - Thermocouple grade wire: -270° to 1260°C Extension wire: 0° to 200°C, Length: 2-3 mAccuracy: $\pm 2.2\text{C}$ or $\pm 0.75\%$
06.	Hygrometer	<ul style="list-style-type: none">Hygrometer with dew point calculation,Accuracy: $\pm 2\%$Hygrometer with data logger
07.	Luxmeter	<ul style="list-style-type: none">Display: $3\frac{1}{2}$ Digit, 13mm LCDResolution: 0-2000(1 Lux), 0-20000(10 Lux) & 0-50000(100 Lux), (3 Ranges)Accuracy: $\pm 5\%$Range: 0-2000, 0-20000 & 0-50000 Lux (3 Ranges)Sampling Time: 0.4 Times / Seconds

08	Thermal Image Sensor	<ul style="list-style-type: none"> • Temperature Measurement Range: -20°C to 450°C • Basic precision: $\pm 2\%$ or 2°C • Distance coefficient ratio: 24:01:00 • Measurement resolution: 0.1°C/°F • Response time: 150ms • Field of View: 35°x26° • Thermal imaging sensitivity: 150mk • Display resolution: 726800 pixel (320*240) • Battery: Built-in rechargeable battery • Continuous battery life: 2~3 hour • Memory card: built-in 3G(20K images)
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It is certified that, the (Firm name), the technical specifications are exactly specified in the tender. We know that in case of any deviation, our offer will be cancelled at any stage.

Vendor Seal and Sign with Date

Special Terms and Conditions

1. System should be calibrated and certificate of calibration is necessary at the time of supply.
2. Experience Criteria, Bidder Turnover, OEM Authorization Certificate, OEM Annual Turnover shall be provided by the tenderer for the last three years.
3. In case any tenderer is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be provided for evaluation by the buyer.
4. In the last three year, the tenderers should have supplied the product/components/equipment to the minimum two Government or Autonomous organization/Institution. The copy of the proof is to be attached.
5. Scope of supply (Bid price to include all cost components): Supply Installation Testing and Commissioning of Goods.
6. Availability of Service Centres: Tenderer/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty).
7. If service center is not already there at the time of tender, successful tenderer / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
8. The successful tenderer shall be solely responsible for the Goods / Services including, without limitation, the applicable guarantee / warranty, shelf-life, quantity, quality and the title and for giving the correct and accurate details of the offer their Goods and / or /Services indicating product specifications, quantity which can be supplied over the specified time period, etc.
9. The tenderer would ensure that the Goods or /Services offered are latest, new and complete in all respects.
10. Where tenderer is selling any Goods which needs spare parts, tenderer should ensure and make available such spare parts for a minimum period of three years from the date of expiry of warrantee period (unless otherwise specified).
11. The individual tenderers shall ensure that the products offered in tendering and/or ordered shall remain available with them during the tender / contract validity period.
12. The Tenderers shall be responsible for erection, installation and commissioning of the machines/equipments at the destination site, free of cost and also for making it fully operational.
13. Successful Tenderer shall make provision for imparting training at MITS Gwalior free of cost during Site Acceptance Test (SAT) regarding:-
 1. Maintenance of the systems.
 2. Pre-and post-installation training to operating staff
14. Successful tenderer should provide at least 24 months after maintenance and sales service from the date of commissioning.

It is certified that, the (Firm name), agree all the special terms and conditions of the tender. We know that in case of any deviation from the special terms and conditions and specifications, will cancel our offer.

Vendor Seal and Sign with Date