

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

**Cost Rs.500/-**

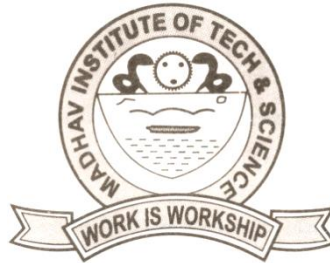
**Supply and Installation of Solar Water Heater in New Girl's Hostel**

**(II Call)**

**(For S. No. 02)**

**Tender, Dec.2016**

**(2016-2017)**



## MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-05

Sr. No.	Name of Item With specifications	Quantity	Make	Warranty/ Guaranty	AMOUNT After VAT Rs.
1.	<b>Solar water heater ETC 500 LPD including Electric Heater (3 kw each)</b>	<b>01 no.</b>			

### TECHNICAL SPECIFICATIONS

**The Solar Water Heating System should comprise of:**

- (1) Solar ETC collectors
- (2) Properly insulated Stainless Steel hot water storage tank and various other components
- (3) HDPE cold water tank (Optional, as and where required)
- (4) Collectors / Tank stand assembly
- (5) Necessary piping for cold and hot water
- (6) Instrumentation,
- (7) Brass valves
- (8) Five years guarantee/warrantee
- (9) Any other item not mentioned in the bid but is required for commissioning of the system.

#### **Solar Evacuated Tubes:**

ETC based Solar Water Heater shall conform to the latest BIS specifications and minimum overall dimension of the EVT tube and other specifications should be as under:

- a) Length (in mm) : 1800+100
- b) Diameter (in mm) : 55-60
- c) Selective coating content: Copper-Aluminium
- d) Selective Coating type: Triple layer
- e) Thickness of coating: 350 nm (minimum)
- f) Glass: Borosilicate glass
- g) Thickness of glass tube: 1.6 mm (minimum)
- h) Thermal expansion of glass tube:  $3.3 \times 10^{-6}$  deg C
- i) Vacuum Jacket Pressure:  $5 \times 10^{-6}$  Pa
- j) Solar absorption: >0.9
- k) Insulation: Vacuum jacket,
- l) Gaskets for tubes: EPDM
- m) Number of tubes: As required with respect to SWH capacity and as per manufacturer specifications/standard.

#### **Tanks:**

- a) Capacity: As mentioned in schedule (500 LPD)
- b) Type: Natural flow/Thermocycphon
- c) Configuration: Horizontal (or vertical for some locations ,if required)

- d) Test pressure in kgs: 1 Bar
- e) Inner Container: Stainless Steel
- f) Insulation: PUF (min 40mm thick)
- g) Outer cladding: Aluminum / GI Pre coated Sheets
- h) Inner body material: Stainless Steel 304 best anti-corrosion performance Tank
- i) Inner/outer body diameter: As per manufacturer specifications
- j) Frame material: M.S. with PU paint/steel board plating with Zinc
- k) Fixtures: Stainless Steel
- l) Inner tank thickness: 1.0mm (min)
- m) Insulation material: Polyurethane foaming min 40 mm thick (minimum)

Piping for hot and cold water:

Polyethelene-Aluminium-Polethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450

The pipe line should be properly supported and fixed with clamp.

### **Instrumentation**

1. Temperature gauges as and where required
2. Two brass valves ISI marked are to be supplied: one for inlet, one of outlet.

### **GENERAL TERMS & CONDITIONS**

1. Tender documents can be obtained against cash payment/DD (non-refundable Rs.500/-) (in favour of DIRECTOR, MITS, Gwalior payable at Gwalior) only, on or before 13.01.2017 Up to 02.00PM from the Institute during working hours.

2. Earnest money deposit (EMD) (Rs.5, 000/-), is to be submitted along with the completed tender form duly sealed in 1<sup>st</sup> cover. The EMD shall be in the form of Demand Draft/Pay order/Cash in favour of the Director, **MITS, Gwalior**, payable at Gwalior.

3. Eligibility criteria for applying for the tender-

**A. Valid sales tax and commercial tax registration for the similar work on the date of application.**

**B. Latest Income Tax clearance certificate**

**C. TIN Number**

**D. Proof of minimum 03 year experience of the same nature job done in the reputed Departments.**

**E. Local MNRE Approval and registration number**

These certificates are to be put inside the 1<sup>st</sup> envelope.

4. The tenders shall submit the tender in two sealed envelopes marked as 1<sup>st</sup> and 2<sup>nd</sup>. **The first envelope should contain the E.M.D. and copies of all relevant documents pertaining to eligibility criteria and second envelopes should contain the tender form of the price bid.** In case, the 1<sup>st</sup> cover is not annexed for eligibility criteria in the proper form as mentioned above in clause (3), and /or is without E.M.D, the envelope marked 2<sup>nd</sup> will not be opened at all and the same will be rejected and no representation shall be entertained in this regard. The sealed covers must be super-scribed with the contents contained therein.

**The tender documents directly downloaded from the web site, must be attached with a draft of the tender cost of Rs.500/- in favour of Director, MITS, Gwalior payable at Gwalior. (web site: [www.mitsgwalior.in](http://www.mitsgwalior.in))**

5. The last date & time of submission of tenders is, (on or before) 13.01.2017 up to 03.00PM.

6. Tenders will be opened on 13.01.2017 at 04.00PM. First envelope will be opened from 04.00pm onwards and the second envelope of only the eligible tenderes will be opened on the same date.

7. Validity of the rates will be up to 31.03.2017 from the date of opening of the tenders.

8. Telegraphic/Fax and conditional tenders shall not be accepted.

9. **Director, MITS, Gwalior**, reserves the rights to accept or reject any or all tenders without assigning any reason thereof.

10. The rates should be F.O.R. at site (Institute Premises) & no extra charges on this account (for Octroi, sales tax, and surcharge etc.) shall be payable to the suppliers.

11. Our Institute is exempted to pay excise duty.

**12. The rates should include all materials, labour charges, profit & relevant taxes, if any.**

13. The tenderers whose tender is accepted shall have to sign an agreement as per the given format.

14. Any amount due or becoming due for the tenders shall be covered from their bills.

15. The competent authority reserves the right to increase or decrease the quantity of any item of supply, during the period of contract. The tenderes will be bound to comply with the order of the competent authority without any claim and compensation.
16. The competent authority to dispose off the tenders will have the right of rejecting all or any part of the tender without assigning any reason; **even the lowest tender does not necessarily qualify for the order depending upon the desired Technical Specification.**
17. The rates should be competitive and workable.
18. Any controversy will be subjected to disposal in Gwalior Jurisdiction only.
19. The Income Tax and commercial Tax shall be deducted from the bills as per the rules.
20. The whole supply should be satisfactory executed within stipulated time from the date of issue of order. Time extension will not be permitted.
21. The tenderers shall execute the work as per specification mentioned in the supply order.
22. Before making any supply of any materials to the Institute, the tenderes shall get it approved by the competent authority or his representative; otherwise the supply shall not be approved. To check the rest of supply, he should submit the approved sample in our office, if items do not belong to reputed or registered make.
23. The tenderer should satisfy himself regarding the magnitude of the supply & no claim on this account shall entertained.
24. Warranty period should be clearly specified as per the latest terms & conditions of the original manufactures and the parts and labour costs are to be included for the full warranty period.
25. The warranty period will be considered from the date of supply of the items.
26. A duly constituted committee of the Institute may inspect the supply made by the tendere at other places. The committee may also inspect infrastructure of those applicants who qualify the eligibility criteria in clause-3, for satisfaction.
27. M.I.T.S.Gwalior will have the rights to check the samples before supply.
28. Payment will be made after the successful and satisfactory supply and installation.
29. The work order will be issued to the lowest total rate vender with the conditions that the vender will supply the items on lowest approved rates of item in tender.

**DIRECTOR**

I have studied the above general conditions of contract and shall abide by them.

**Seal & Signature of the Agency/Firm**

**TENDER NOTICE**

Sealed tenders are invited from manufactures/authorized dealers/reputed suppliers/  
registered contractor/agencies in government and semi-government department:

<b>S. No</b>	<b>Particulars</b>	<b>Earnest Money Rs.</b>	<b>Cost of Tender Form, Rs.</b>
1.	SITC of PVC Cable with suitable Distribution Boxes for Main Electrical Supply at Bio-Tech Building,EDC and Director Bunglow to Guest House	Rs.10,000/-	Rs.1000/-
2.	Supply and installation of Solar water heater ETC 500 LPD including Electric Heater (3 kw each) II Call	Rs.5,000/-	Rs.500/-

The tender form can be obtained from the office of the undersigned, on or before 13.01.2017 up to **02:00 PM** by depositing the cost of tender form in cash/DD in the Institute working days. The last date for the submission of completed tender form is 13.01.2017 up to **3:00 PM** and tenders will be opened on same day at **04.00PM**. The tender documents can be downloaded from the web site [www.mitsgwalior.in](http://www.mitsgwalior.in).

**Registrar**