

Cost of Form Rs.1000/-

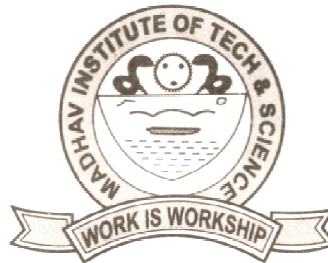
Earnest Money Deposit: Rs.20,000/-

Supply and Installation of Solar Water Heating System in Girl's Hostel-6

(7000LPD)

Tender Document, Nov.2017

(2017-2018)



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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(An govt. aided UGC autonomous Institute, Estd. 1957)

Note: MITS Gwalior Girls hostel no. 6 requires solar water heating system of capacity 7000 LPD. The Tenderers are requested to visit the site before making any quote. The system may be ETC type or FPC type or combination of both. MITS Gwalior is looking for economical and sustainable solution for water heating so after sales service is a priority of selection. Also, MITS Gwalior reserves the right to modify the system size.

Sr. No	Name of Item With specifications	Quantity	Make	Warranty / Guaranty	AMOUNT (Rs.)	GST (Rs.)	Total (Rs.)
1.	Solar water heater Evacuated Tube Collector (ETC Type)	7000 LPD system					
2.	Solar water heater Flat Plate Collector (FPC type)	7000 LPD system					
3.	With electric backup Solar water heater Evacuated Tube Collector (ETC Type)	7000 LPD system					
4.	With electric backup Solar water heater Flat Plate Collector (FPC type)	7000 LPD system					

Important

General guidelines and standards are given below. However, for any recent change, Tenderes are advised to visit website of **Ministry of New and Renewable Energy, Government of India** i.e. "mnre.gov.in" for "**Minimum Requirements for installation of Solar Water Heating Systems in Field**".

Standard: The quoted system should meet the MNRE standard "MNRE STD: 2013" pr modified, if any for ETC type collector. Recommended standard

General 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:

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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-Aluminum ; 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: 3.3×10^{-6} deg C ; i) Vacuum Jacket Pressure: 5×10^{-2} 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/Thermocypnon ;
 - 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.

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GENERAL TERMS & CONDITIONS

1. Tender documents can be obtained against cash payment/DD (non-refundable Rs.1000/-) (in favour of DIRECTOR, MITS, Gwalior payable at Gwalior) only, on or before **25.10.2017 Up to 02.00PM** from the Institute during working hours.
2. **Earnest money deposit (EMD) Rs.20,000/-**, is to be submitted along with the completed tender form duly sealed in **Envelope- I**. 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). PAN and GST Number
 - B). Latest Income Tax clearance certificate
 - C). Proof of minimum 03 year experience of the same nature job done in the reputed departments.

These (A, B and C) certificates are to be put inside the **Envelope- I**.

4. The tenders shall submit the tender in **two sealed envelopes** marked as; **Envelope- I** and **Envelope- II**. **Envelope- I 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 **Envelope- I** 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- II** 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.1000/- in favour of Director, MITS, Gwalior payable at Gwalior. (web site: www.mitsgwalior.in)**
5. The last date & time of submission of tenders is, (on or before) **25.10.2017 Up to 03.00PM**.
6. Tenders will be opened on **25.10.2017 Up to 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 31.03.2018 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. Even the lowest tender does not necessarily qualify for the order depending upon the desired Technical Specification.
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. MITS Gwalior 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 proper 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 rates should be competitive and workable.

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17. Any controversy will be subjected to disposal in Gwalior Jurisdiction only.
20. The Income Tax shall be deducted from the bills as per the rules.
21. The whole supply should be satisfactory executed within stipulated time from the rate 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 tenderer 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