

**OFFICE OF THE UNIVERSITY ENGINEER
PATNA UNIVERSITY, PATNA -800 005**

NOTICE INVITING QUOTATION

Quotation No.:19/2018-19

Date: 30/11/2018

Designation of officer inviting quotation	University Engineer, Patna University, Patna
Place, Time & Date of receiving of Quotation	Office of the University Engineer, Patna University, Patna upto 3:00 pm on 12/12/2018
Place, Time & Date of opening Tender	Patna University, Patna at 3:30 pm on 12/12/2018

S.N.	Description of work	Time of Completion
1	Installation of Solar Water Heater System for GDS Hostel Patna University, Patna	10 Days

TERMS & CONDITIONS:

- Paper submitted with quotation:
 - GST
 - Registration of Firm/Agency
 - Catalog/Broacher of the product.
- Payment – 100% against completion of work.
- The Bidder should inspect the site before filling in and submitting the quotation to get fully acquainted with the scope of work as no claim whatsoever will be entertained for any alleged ignorance thereof. Quotations must be submitted in original and without making any additions, alternations, and as per details given in other clauses given hereunder. The requisite details shall be filled in by the Bidder in the quotation Document wherever required.
- The sealed quotation should also be sent through courier/Registered/Speed Post. Conditional quotation or quotations received after the due time and date shall not be entertained in any circumstances. University Authority would not be responsible for any delay or loss of the quotation document, The quotations will be opened in the office of the undersigned in presence of any intending supplier or his/her authorized representative who may wish to be present at the designated time and place. If the fixed date turns out to be the holiday, the date of opening will be the next day.
- At the time of opening of tender only participant quotationer or his single authorized representative with authority letter will be allowed to present.
- All disputes, what so ever shall be referred to the sole arbitration of The University Engineer Patna University, Patna and his decision shall be final and binding on the agency.

भ्रष्टाचारी के दबाव में मत रहें, निगरानी विभाग से मिलकर कहें

7. All the matters subject to the jurisdiction of Patna High Court.
8. Bidders should submit details in the format given at Annexure-1 and should quote the rates in the format given at Annexure-2. Incomplete bids will summarily be rejected. All corrections and alterations in the entries of quotation document will be signed in full by the Bidder with date. No erasing or over- writings are permissible.
9. The undersigned reserve the right to accept or reject any or all the quotation without assigning any reasons.

Sd/-
University Engineer
Patna University, Patna

Memo No.: 456/UE

Date:30/11/2018

Copy to:

1. Pro Vice Chancellor, Patna University, Patna
2. Financial Advisor, Patna University, Patna
3. Registrar, Patna University, Patna
4. Finance Officer, Patna University, Patna
5. Budget and Accounts Officer, Patna University, Patna
6. Hostel Superintendent, GDS Hostel, Patna University, Patna
7. Personal Assistant to the Vice Chancellor, Patna University, Patna
8. Incharge, P.U.C.C. for upload of Quotation Document on the website (www.patnauniversity.ac.in). Approval of the same has been taken in concerned file.
9. Er. Arvind Kumar, Assistant Engineer, Er. Krishna Ram, Engineer Assistant, Sri Manoj Kr. Mahto, Draftsman Gr-2 and Sri Satyendra Kumar, UDC, Works Department, Patna University, Patna

Sd/-
University Engineer
Patna University, Patna

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BID DOCUMENT

Bid should indicate following information along with the self-attested photocopies of supporting documents:

1. THE FIRM

a) Name _____

b) Registration No. _____

c) Address of Office at Patna _____

d) Contact Person's

i) Name & Design. _____

ii) Address _____

iii) Tel No. Landline _____ Mobile _____

iv) Email ID _____

2. Type of Firm : Proprietorship/ Private Ltd./PublicLtd./ Cooperative/
NGO/PSU (Please tick and enclose copy of
Memorandum/ Articles of Association/ Certificate of
Incorporation)

_____ enclosed. (Pl. specify)

4. GIST No. : _____

Signatures of authorized person

Name _____

Designation _____

Seal

PRICE BID

Installation of Solar Water Heater System for GDS Hostel Patna University, Patna

Sl. No.	Description of Items	Qty	Unit	Rate (₹)	GST(₹)	Amount including GST(₹)
A	Supply fitting fixing Solar water hearing system- 500 LPD*, Evacuated glass tubes type collector, direct inserted in PUF insulated tank, maintaining 65 deg C temp. within the tank. Along with 3 KVA electric backup arrangement. Item consists of following:	2 set	Each Set			
	1. Tank-PUF insulated Hot Water Tank 500 Lt., (treated with sand blasting/ Non stick epoxy coated CRCA Sheet 3 mm thick) with glass protection MS Jali.- 1 nos					
	2. System Stand- MS type suitable to fix 500 L Tank and glass tubes.- 1 set					
	3. Glass tubes(Evacuated type)/ ETC tubes- 34 nos					
	4. Electric Element: 3 KW/230V- 1 no.					
	5. Pipes and fittings: Suitable within System- 1 sets					
B	Pipes (cPVC-1"/0.75") supply & laying from our hot water tank to your bathrooms above surface level.	100 m.	Per mtr			
Total ₹						
(In words: Rs.)						

Signatures of authorized person

Name _____

Designation _____

Seal

Technical Specification

Solar water heating system- 500 LPD*, Evacuated glass tubes type collector, direct inserted in PUF insulated tank, maintaining 65 deg C temp. within the tank. Along with 3 KVA electric backup arrangement.

S. No.	Characteristics	Details
1.0	General	
1.1	Conformity to standards	MNRE Approved
1.2	Major Components	Vacuum tubes, Hot water insulated tank and mounting frame and stand.
2.0	Evacuated Tube Collection	
2.1	Tube size	58 mm outer diameter 47 mm inner diameter
2.2	Absorber area of the Collector	Area covered by the collector 8.2 sqm
2.3	Water Output	Rated LPD at 65-70 °C* *Under normal sunny conditions
2.4	Material of construction (Absorber)	Tube made of Borosilicate Glass
2.5	Coating	Graded Al-N/Al Outer Surface of the inner tube Selective-Black chrome
2.6	No. of layers of coating	3
2.7	Length of each tube	2100 mm
2.8	Vacuum of the tube	$\leq 5 \times 10^3$ pa*
2.9	Hail resistance / impact resistance	< 25 mm Dia
2.10	No. of Tubes	34/500 LPD
2.11	Absorbptivity (%ge) of the Collector	>92%
2.12	Emmissivity (%ge) of the Collector	<8%
2.13	Collector frame	Tubes mounted on powder coated M.S.
2.14	Glass Beading and Sealing	Silicone Rubber Ring
2.15	Grommets	EPDM with inside and outside locking collar
2.16	Absorber – Mounting structure	Frame made up of powder coated mild steel.
3.0	Hot water Insulated Storage tank	
3.1	Material of construction a) SUN FLAIR- 500 LPD	Inner tank MS with non stick coating of thickness 2. Mm
3.2	Outer Tank	Powder coated
3.3	Thermal Insulating material	PUF
3.4	Thickness of Insulation	50 mm
3.5	Heat Loss	Overnight temperature loss 4-6 degree Cen.
3.6	Tank design	Suitable for withstanding 1kg /sq. cm. (Atmospheric).
4	Miscellaneous	
4.1	Fasteners	All Fastenesrs used are stainless steel 304 (Nut, Bolt, Flat washers)
4.2	Interface between dissimilar materials	Special Silicone Rubber