



SAST/CLPC/ACU-AIMS/ 42/2025-26

14.07.2025

TENDER NOTIFICATION

The Head, CLPC, Sri Adichunchanagiri Shikshana Trust invites closed tenders from eligible tenderers or bonafide licensed manufacturer (OEM) or their authorized local supplier/ dealer/ distributor in the state of Karnataka for the Supply and Installation of HEAT PUMP WITH SOLAR PANELS to AIMS, BG Nagara as per section I & II.

01	Name of the work	Supply and Installation of HEAT PUMP WITH SOLAR PANELS to AIMS Girls Hostel.
02	Last Date for Tender Submission	On or before 22.07.2025 within 5:30pm

Section-1

Instructions to Tenderers

- 1) The Tenderer shall submit the bids (Technical & Financial bids) through the mail id: **clpchead@bgscet.ac.in** on or before the last date of tender submission (for any or all list of items) on professional business letterheads only. The details to be printed on the letter head is as follows
 - i) Tender for Supply and Installation of HEAT PUMP WITH SOLAR PANELS to AIMS, BG Nagara
 - ii) Tender Reference number **ACU/AUTY/CLPC/258 Dated on 05/02/2025, AHRC/ACU/U-356/2024-25**
 - iii) Address to " The HEAD, CLPC, Sri Adichunchanagiri Shikshana Trust, BGSCET Campus, Mahalakshmipuram, Bengaluru - 560086"
 - iv) The tenderer shall submit the original documents to this office on the last day of submission for verification who prefers to submit the tender through Post can dispatch the same through Registered post / Speed post or Couriers as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the authority, Head of CLPC will not be liable or responsible for the same.
- 2) **Tender Currency:** Prices shall be quoted in Indian Rupees only.
- 3) **AMC/CMC (IF ANY)** is subject to the Sri Adichunchanagiri shikshana trust's norms.
- 4) **Warranty:** 3 Years
- 5) **Amendment of tender documents:** At any time prior to the deadline of submission of tenders the trust may, for no reason, whether as its own initiative or otherwise modify the tender documents by amendment. Sri Adichunchanagiri Shikshana Trust reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.
- 6) **Documents Comprising the Tender:** Shall attach Brochure, Certification of the product, Bank/account details, PAN, GSTIN, Good Standing Certificate and 02 years of ITR



declaration inside the envelope and the company contact details with email id on the in the below mention format in annexure -

- 7) **Tender Prices:** Prices indicated on the price schedule shall be entered separately I.e. the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and the other taxes already paid or payable. Any Indian duties, sales and other taxes which will be payable on the goods if the contract is awarded. Conditional tenders will not be considered. The bidder has to give the quotation in the below enclosed format in annexure - 2.
- 8) **Validity of the Bid:** 90 days from the last date of submission of bid.
- 9) **Corrupt or Fraudulent practices:** Sri Adichunchanagiri Shikshana Trust requires that the tenderers, observe the highest standard of ethics during the procurement and execution of such contracts. In purchase of this policy:
 - a) Will reject a proposal for award if it determines the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - b) Will declare a firm ineligible, either indefinitely or for the stated period of time, to be awarded a university contract if it any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a trust contract.
- 10) **Process to be confidential:** Information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations for the award of contract will not be disclosed to tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced. Any effort by a tenderer to influence the employer's processing of tenders or award decisions may result in rejection of his tender.
- 11) **Clarification of Tenders:** To assist in the examination, evaluation, and comparison of tenders the employer may, at his discretion, ask and tenderer for clarification of his tender, including breakdowns of unit rates. The request for clarification and the response shall be writing or by cable, but no change in the price or substance of the tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the employers in the evaluation of the tenders.
- 12) **Delivery:** The successful BIDDER should commence the service as per the tender document/work or purchase order. For any queries or assistance, please write to clpchead@bgscet.ac.in or telephone to +91- 9448270489.
- 13) **Penalty Clause:** Non-execution of supply order – for the reasons of failure to supply partially or completely within the stipulated time or any event of breach of contract. In case at any following stages
 - a) For the delayed supply (3 days of grace period) – 5% deduction
 - b) Quantity issues – 5 % deduction
 - c) Quality issues – 10% deduction


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**Mahalakshnipuram,
Bengaluru - 560 086.**



Section-2

SUBJECT: BILL OF QUANTITIES FOR HEAT PUMPS					
SL. NO	DESCRIPTION	Unit	Qty	Rate	Amount
01	HEAT PUMP				
02	MIXING TANK				
03	CIRCULATION PUMPS				
04	RETURN LINE CIRCULATION PUMPS				
05	INTERCONNECTION PIPE LINE				
06	SYSTEM CONTROL PANEL				
	Total				
Sl no	Particulars	Unit	Qty	unit rate	Amount
1	HEAT PUMP				
	Supplying, Insatallation, testing and commissioning of Heat Pumps 2 Nos , with the following duty condition and specifications for generation and distribution of hot water:				
	The Heat Pump shall have the following specifications :				



a)	Out put rate - 1000 ltrs/hr				
b)	Heat pump Model: As per manufacturer design / standard				
c)	Rated Heating Capacity input Put 10 kw/ no				
d)	Rated Heating Capacity Out Put 40.0 kw / no				
e)	Noise level: Without enclosure <60 dB				
f)	Hot temperature of Output : 55 deg to 60 deg C				
g)	Externally equalised thermostatic expansion valve with throttling mechanism				
h)	Hermetically sealed scroll compressor Unit				
I)	Evaporator / cold side heat exchanger (if required)				
j)	Condenser / hot side heat exchanger				
k)	Flow regulation valves				
l)	Check valves				
m)	Thermometer - Primary and Secondary side				
n)	Temperature guage				
o)	Primary Circulation pump of suitable capacity with necessary valves on primary side between heat pump and Mixing tank				
p)	Y Strainer				
q)	Audio Visual indication including alaram/ hooter				
r)	Provision in the event of failure of pump				
s)	Necessary control Panel including earthing arrangement				
t)	Rated output heating capacity - as per system requirement				
u)	Input power consumption- as per system requirement				
v)	Input power supply - as per system requirement				
w)	Water connection - Inlet and outlet dia - 32 mm dia				



x)	Inlet water temperature - 25 deg C - 30 deg C				
y)	Outlet water temperature - 55 deg C -60 deg C				
z)	Co-efficient of performance - 3.5 - 4.0				
		Set	01		
2	MIXING TANK				
	Supplying, installation and testing and commissioning of storage type Mixing tank (capacity 5000 Ltrs) made of Mild steel ,tested to a pressure of 8 kg/sq.cm, capable of storing hot water insulated with 50 mm thick Rock wool with wire mesh around and clad with 26 SWG aluminum. Mixing tank shall be of dish end type with working pressure of 5 kg/cm2 Shell shall be fabricated with 5 mm thick plate and dished ends with 6 mm thick plates complete with man hole cover, safety valve drain, nozzle, inlet and outlet nozzles pressure gauge, industrial type temperature indicator. The mixing tank shall be provided with collors of 2" BSP for provision to instal 6 Numbers of Electrical Heating Coils if required . The Mixing tank shall have thermal sensors for automatic operation and integrated into the electrical circuit of the circulation pumps and the Heat Pump.	NO	01		
3	CIRCULATION PUMPS				
	Supply, Testing and commissioning of approved make Circulation Pumps for Hot water circulation between the Heat pump and the Mixing Tank Discharge and Head : AS PER VENDOR Make : GRUNDFOS (One working)	No	02		
4	RETURN LINE CIRCULATION PUMPS				
	Supply, Testing and commissioning of approved make Circulation Pumps for Hot water circulation between the Plumbing ring main and the Mixing Tank. Discharge : 3.0 cubic mtr/hr @ 30 mteres head Make : GRUNDFOS (One working + One stand by)	Set	01		



5	INTERCONNECTION PIPE LINE				
	Supply, Testing and commissioning of CPVC Pipe line between hot water tank and heat pump with necessary Ball valves and non-return valves, Union, ARV, Y strainer and other brass fitting etc., Complete	Lot	01		
6	SYSTEM CONTROL PANEL				
	Supply, Testing and commissioning of Electrical panel Board for Integration and automatic operation of Return Hot water circulation pump with necessary timer. etc complete				
	3 Phase indication, pump auto manual control switch, DOL circuit for pumps with contactor, OLR and MCB. 24 hours cycle digital timer for pump on off control. Single phase relay protection for pumps. Pump selection switch (Pump -1 / Pump - 2: On / off (Qty as per system requirement) Indicated all above housed in powder coated control mounted on a wall	No	01		
	TOTAL				


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SUBJECT: BILL OF QUANTITIES FOR SOLAR WATER HEATING SYSTEM AND ACCESSORIES.

(Pressurized system)

ABSTRACT

SL. NO.	DESCRIPTION	Unit	Qty	Rate	AMOUNT (Rs)
PART A : SOLAR PANELS / COLLECTORS					
PART B : MS HOT WATER TANK FOR SOLAR					
PART C : CPVC PIPING SYSTEM AND FITTINGS:					
Total amount					

Note: Hot water outlet from the solar tank should be connected to Heat pump hot water mixing tank only

SL. NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART A: SOLAR PANELS / COLLECTORS					
01	Supplying, installation, testing, and commissioning of solar water heating system with solar panels / collectors confirming following specifications for generation of hot water :				
I GENERAL:					
a)	The system shall be registered and approved by BIS under IS 12933 Part - I				
b)	Support structure made out of polyester powder coated CR tubes.				
c)	Uniform out put on continuous usage				
d)	Flanged end Inlet and outlet provisions for connectivity.				



e)	Suitable for the Working pressure 4.0 - 5.0 kg / sq.cm				
f)	Interconnecting bolts and nuts shall be of stainless steel.				
II	SYSTEM SPECIFICATIONS:				
a)	System Capacity : 125 LPD / Pannel				
b)	System type : Pressurized System				
c)	Operating pressure : 4.0 - 5.0 kg / sq.cm				
d)	System Output Temperature: 80 deg.C				
e)	No. of Collectors: 1 No / set or as per system requirement.				
III.	<u>PANEL / COLLECTOR BOX</u>				
a	Collector size : As per system requirement				
b	Collector box: Extruded Aluminum, make - Jindal / indal / balco Grade HE9T / HE9WP				
c	Fins Header & Risers: Copper 99.99 % pure (+/-0.02) with NALSUN with selective coating and Black chrome				
d	Unique SERRATED fins, with multiple reflections for incresed system operating efficiency.				
e	Absorpivity: >96%				
f	Emissivity : < 20%				



g	Finish : Powder coating				
h	Glass retaining Angle : Extruded Aluminium as above				
i	Back sheet: 22 SWG, Aluminium, Rivebed and sealed with silicone sealant				
j	Glass: 4 mm thrice toughened, low iron content with more than 87% transmissivity				
k	Glass Beeding / Sealing: EPDM with 35% rubber content, along with top aluminium retainer angle, using SS self tapping screws.				
l	Grommets: EPDM with inside / out side locking collar				
m	Hardware components: Stainless steel				
n	End connection: 4 mm thick brass flanges with EPDM gaskets				
o	Insulation: 48 kg / cu.m density mineral rock wool, bottom 50 mm and sides - 25 mm				
p	Reflective foil for bottom: Aluminium - 100 micros for sides, 50 microns				
q	Frame bottom and corners Sealed from inside with 100% GE SILICONE sealant. Bottom back sheet riveted.				
r	Brass Flanges: 63 mm round diameter				



s	Unique proprietary Aluminium frame made from "JINDAL" section				
t	Aluminium REFLECTOR beneath absorber and on sides, for reduced heat losses.				
u	Magnesium activated - SB sacrificial anode for protection of panel and tank from chemical erosion				
v	STUCCO finish aluminum back sheet				
w	POWDER / EPOXY coating of collector frame for added protection and aesthetic colour				
x	Grouting of collector support legs with PCC				
y	No. of panels (approximately 24 No) to generate 3000 liters of Hot water / system				
		Nos	24		
	TOTAL - PART - A				
	PART B: MS HOT WATER TANK FOR SOLAR				
2	MIXING TANK				


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	Supplying, installation and testing and commissioning of storage type Mixing tank (capacity 3000 Ltrs) made of Mild steel ,tested to a pressure of 8 kg/sq.cm, capable of storing hot water insulated with 50 mm thick Rock wool with wire mesh around and clad with 26 SWG aluminum. Mixing tank shall be of dish end type with working pressure of 5 kg/cm ² Shell shall be fabricated with 5 mm thick plate and dished ends with 6 mm thick plates complete with man hole cover, safety valve drain, nozzle, inlet and outlet nozzles pressure gauge, industrial type temperature indicator. The mixing tank shall be provided with collors of 2" BSP for provision to instal 6 Numbers of Electrical Heating Coils if required . The Mixing tank shall have thermal sensors for automatic operation and integrated into the electrical sircuit of the circulation pumps and the Heat Pump.	No	01		
3	FORCED SOLAR CIRCULATION PUMPS				
	Supply, Testing and commissioning of approved make Circulation Pumps for Hot water circulation between the Solar panel and the solar Mixing Tank Discharge and Head : AS PER VENDOR Make : GRUNDFOS (One working)	No	02		
6	SYSTEM CONTROL PANEL				
	Supply, Testing and commissioning of Electrical panel Board for Integration and automatic operation with sensor arrangement of Hot water circulation pump with necessary timer. etc complete, from solar panel to solar hot water storage tank.				
		No	01		
	TOTAL - PART - B				



PART C : CPVC PIPING SYSTEM AND FITTINGS:					
5	INTERCONNECTION PIPE LINE				
	Supply, Testing and commissioning of CPVC Pipe line between hot water tank and heat pump with necessary Ball valves and non return valves, Union, ARV, Y strainer and other brass fitting etc,. Complete	Lot	01		
	TOTAL - PART - C				

LIST OF APPROVED MAKES

SL. NO	DESCRIPTION	BRAND NAMES / MAKE
01	Solar Water Heating System - Panels	Solariser / Tata BP / Equivalent
02	Solar Water Heating System - Tank	Solariser / Tata BP / Equivalent
03	CPVC Pipes	Hindware / Ashirwad
04	CPVC Fittings	Hindware / Ashirwad


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Annexure – 1

PARTICULARS OF THE BIDDER

Sr. No	Description	Details (to be filled by the responder to the Bid)
1	Name of the company	
2	Official address	
3	Phone No. And Fax No.	
4	Corporate Headquarters Address	
5	Phone No. And Fax No.	
6	Web Site Address	
7	Details of Company's Registration (Please enclose copy of the company registration document)	
8	Name of Registration Authority	
9	Registration Number and Year of Registration	
10	ISO certifications and its validity	
11	GST registration No.	
12	Permanent Account Number (PAN)	
13	Company's Revenue for last 3 years (Year wise)	
14	Company's net worth for the last year	
15	Bank Details (Name, Account no., Branch, IFSC, MICR)	

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Annexure – 2

The Bidder has to quote the rate in the Item Data available online with this bid. Details to be filled up for price bid are as below:

Sl No	Description	Amount (Excl. of GST)
1	Supply and Installation of HEAT PUMP WITH SOLAR PANELS to AIMS Girls Hostel.	
Sub Total Amount		
GST @		
Total Amount in INR (Incl. of GST)		
Amount in words		

Cost related to the works as per Items mentioned in the Compliance sheet for technical proposal.

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