

Tender Document  
for

Selection of Agency for Installation of **Solar Water Heater & Solar Street Light** at Kazi Nazrul University (KNU), Asansol.



# KAZI NAZRUL UNIVERSITY

Nazrul Road, Kalla Bypass More, P.O. – Kalla C.H.  
Asansol, Paschim Bardhaman, W.B., Pin – 713 340

These documents are meant for the exclusive purpose of bidding against this NIT and shall not be transferred, reproduced or otherwise used for purposes other than that for which they are specifically issued.



**E- Tender Notice**

1. Kazi Nazrul University, Asansol intends to setup **Solar Water Heater & Solar Street Light for University Campus** at Asansol. The tentative quantity of the required items along with technical configuration of each items are mentioned at Annexure separately. Kazi Nazrul University is looking for interested bidders who have experience in supplying of above type of instruments.
2. Bidders are advised to study all technical and financial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the Bidder's risk and may result in the rejection of the bid.
3. Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> OR [www.knu.ac.in](http://www.knu.ac.in). **Only Online Submission of Tender will be accepted. Schedule of tender given below:**

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	30.06.2020
2	Start date of sending e-mail for clarification/pre-bid queries/proposed modifications/additional information (if any). If any prospective Bidders wish to visit for Physical Inspection of the campus before submission of Bid, they would take prior consent through email ( <a href="mailto:eo@knu.ac.in">eo@knu.ac.in</a> ) from the competent authority of KNU as we are in a state of restricted functioning due to Covid-19 pandemic situation.	02.07.2020
3	Closing date of sending e-mail for clarification/pre-bid queries/proposed modifications / additional information (if any) [No email will be entertained received after the scheduled date and time]	09.07.2020 upto 04:00 P.M.
4	On the basis of Pre-bid queries, a virtual (online) meeting may be conducted which will be responded in return mail in due time	10.07.2020 at 13:30 hrs.
5	Bid submission start date (On line)	11.07.2020 (10:00 hrs.)
6	Bid Submission closing (On line)	27.07.2020 (18:55 hrs.)



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7	Bid opening date for Technical Proposals (Online)	30.07.2020
8	Date for opening of Financial Proposal (Online)	To be notified later

4. The categories of items and quantity indicated in the Tender Document are tentative. Kazi Nazrul University (KNU), however, reserves the right to increase or decrease the quantity or delete some or all of the items depending on the needs of the KNU and availability of funds without assigning any reasons.
5. The bidder should indicate specifically the **Basic Price, Taxes/Excise duty, GST, Entry tax, other duties (if any)**, and levies chargeable quantitatively against each item. **University will assist to have way bill (if necessary) but the pay will be borne by the bidder.** No additional information will be entertained after due date. KNU may reject bids if they do not carry such information separately and specifically quantitatively.
6. The tender should be submitted in two cover system (electronically) as defined in E-Tender participation system: (a) Technical Bid (b) Financial Bid.
7. The bidder should clearly indicate the delivery period and validity period of tender.
8. The bidder should clearly indicate the availability of service and maintenance facilities in Asansol for the items quoted.
9. The bidders are required to quote for each item separately in terms of basic price and all other charges. Prices can be quoted in Indian Currency only (₹).
10. The bidder (Technical Bid) must be submitted along with the copies of OEM license or authority from the manufacturer.
11. Kazi Nazrul University reserves the right to reject any or all tenders without assigning any reason whatsoever.
12. No advance payment or payment against Performa invoice will be made. Payment will be made after receipt, inspection, and installation/testing.



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13. All damaged or unapproved goods shall be returned at the bidder's risk and cost and the incidental expenditure thereupon shall be recovered from the concerned party.
14. On acceptance of tender, the date of delivery should be strictly adhered to; otherwise the Kazi Nazrul University reserves the right not to accept the delivery in full or in part. In case, the order is not executed within the stipulated period, the Kazi Nazrul University will be at liberty to make purchases through other sources.
15. Payment of bill will be made through/by crossed account payee Cheque or electronic payment (NEFT) only after delivery and successful installation of each of the items.
16. Delivery Schedule: The Company shall be able to deliver the required items within 15 days of the receipt of order. Delivery/Installation is to be done in Asansol, West Bengal.
17. Warranty: All the products must carry minimum one year comprehensive warranty.
18. The products asked for should be of very high standard and of mentioned brand.
19. **Liquidated Damages** : The Company shall be liable to indemnify the Kazi Nazrul University in all respects and meet and pay off the litigation expenses and all the liabilities including damages, sums etc. arising out of and as a consequence of the negligence, deficiencies, mistakes, lapses, delays etc. in the execution of the various jobs and the services provided.
20. The company should ensure quick back up response in case of equipment failure which should be replaced if needed within 48 hours of the distress call.
21. **Award of Contract:** The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive both technically and



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commercially. Purchaser reserves the right to reject any or all the tender, wholly or partly, without assigning any reason thereof and shall not be bound to accept the lowest bid.

22.**Payment:** There is no provision for making advance payment to the Company. However, the running bills for the jobs completed can be submitted by the company and will be cleared for payment within reasonable period.

23.**Purchase Order:** The purchase order for the entire quantity can be placed either in one lump sum or as per the requirement through repeat order subject to availability of fund of the required items. The quantity shown is tentative and may increase or decrease.

24.**Service Level Agreement (SLA)** will be signed with vendor before implementation.

Sd/-  
Registrar (Addl. Charge)



**Annexure 1**

**Pro-forma for Technical Bid :**

<b>SL</b>	<b>Particulars</b>	<b>Information</b>
1	Name of the Firm & Owner : (with Telephone/Mobile Numbers, email)	
2	Type of Organisation (Proprietorship/Partnership/Pvt. Ltd./Limited Company) Month/Year of Establishment	
3	Website of Bidder, if any	
4	Month/Year of Establishment	
5	a) PAN No. b) Sales Tax c) GST Regd. Nos.	
6	Annual Turnover 2019-2020 :	
7	Whether product(s) offered by the bidders are exactly as per the configuration of Kazi Nazrul University. If not, indicate the changes in each product	
8	Clientele (submit copies)	
9	Validity of Tender	
10	Whether Terms & Conditions issued by Kazi Nazrul University are acceptable to the Firm	YES/NO
11	Whether Warranty as per the desired specification	

Date

Name:  
Representative

Signature of Owner/Authorized

Designation:



### **Technical Specification**

#### **1000 LPD FPC Solar Water Heater :-**

Solar collectors for 1000 LPD Solar water heater; 08 No. (09 Fins collector)  
Temperature: 60 degree, Solar insulation: 5.5 kWh/sqm/Day, Collector  
inclination: 35-45 Degree

1. **Header Pipe:** Material : Copper, Dia: 25.5 mm, Wall Thickness : 0.71 mm
2. **Riser Pipe:** Materials: Copper, Dia: 12.5 mm, Wall Thickness: 0.56 mm, No of Raiser: 9 Nos.
3. Absorber Absorptive : 0.93, Emissivity : 0.18
4. Bonding between Header and Riser: Continues Copper Brazing.
5. Bonding between Riser and Sheet: Continuous Ultrasonic.
6. ABSORBER SHEET : Material : Copper, Thickness:0.12 mm, Absorber Coating: Black Chromium
7. Collector Box: Material: Aluminium Extruded Channel, Size: 2030 X 1030 X 100 mm, Thickness of materials: 1.4 mm sheet for bottom: 0.56 mm, Powder Coating colour: Red & Yellow.
8. Front Glazing : Materials: Toughened glass, Thickness: 4 mm, Transmittance; 85 %
9. Beading and Gasket: E.P.D.M.
10. Insulation: Materials: Rock wool, Density : 48 Kg/m<sup>3</sup> , Thickness : 50 mm
11. Collector Panel Support Frame: Materials: Mild Steel, Size: 32X 32 X 3 mm.
12. Testing Conducted: (i.) Hydraulic Test: For Leakage, (ii) Impact Test: Toughened Glass. (iii) Thermal Test : For Materials. (iv) Temp . Raise Test: For Collector, (v) Rain Penetration Test : For Cover Plate
13. Absorber Aperture Area: 1.95 Sqm, Space between cover plate bottom & absorber surface: 35 mm.
14. Storage Tank: Materials: 304 Stain Steel, Thickness: 1 & 1.2 mm. Bonding between sheet: Continuous Tig welding.
15. Insulation: Material: PUF, Thickness: 50 mm, Density: 32 Kg/m<sup>3</sup>.



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16. Outer Cladding: Material: Aluminium, Thickness: 22 SWG, Inter connecting Pipes: EPDM Hose pipe.
17. Electrical Back up: Make: ISI Marked, Capacity: 3 Kw, Thermostat: 0 to 90 Dig.
18. Sacrificing Anode: Materials: Aluminium, Application: To avoid bimetallic corrosion.
19. Storage tanks Stand: Materials: Mild Steel – 30 x 30 x 3 mm

## **Technical Specification for Solar Street Light:**

1. 01 No 12 V 60 Wp Solar Photovoltaic module under STC.
2. 01 No 12 V 60 Ah Tubular Stationary battery.
3. 01 No Electronics assembly with automatic Dusk to Dawn circuit, driver for lamp assembly, charge discharge regulating circuitry for protection of the battery.
4. 01 No. weather proof OUTDOOR luminary with 12 watt CLUSTER BASED LED.
5. 01 No. 4.5 Mt M.S. Painted Pole, battery box with locking arrangement, module mounting structure, wire set, Fasteners etc.
6. Installation & Commissioning.

**\*\* Bidder must quote per unit rate including installation & All Taxes.**

**Sd/-  
Registrar (Addl. Charge)**