



**University of Calcutta**  
**Dept. of Applied Physics**  
**92 APC Road, Kolkata 700009**

**Tender Notice**

**Enq No.: AP/2/ENQ/RG/20-21**

**Date: November 27, 2020**

To  
**The All Interested Parties**

Dear M/s.

Please submit sealed quotation within **December 10, 2020 (5 pm)** at the Office of the Department of Applied Physics and/ or **through email** at <rgaphy@caluniv.ac.in> for the following items.

Please enclose the copy of the following papers along with the quotation.

1. Trade License,
2. PAN Card,
3. VAT & Service Tax Registration wherever necessary;
4. Sole selling and / or distributor certificates, as applicable.

**1. Solar Photovoltaic (PV) module**

<b>Major Specifications</b>	<b>Quantity</b>
Electrical parameters specified below should be at STC: 25°C, 1.5AM, 1000 W/m <sup>2</sup>	<b>12 (twelve)</b>
Peak Power 40 [W] ±3.0%	
Open Circuit Voltage (Voc) 20 to 23 [V]	
Short Circuit Current (Isc) 2.0 to 2.5 [A]	
Voltage at Maximum power point (Vmpp) 18 to 20 [V]	
Current at Maximum power point ( Impp ) 2.0 to 2.22 [A]	
Maximum System Voltage 600 [VDC]	
Nominal Operating Cell Temp. {NOCT} 40 to 50 (°C)	
Temp. Coefficient of Pmax -0.3 to -0.45 [%/°C]	
Please note: Installation of the PV modules should also be carried out at the rooftop of the Department of Applied Physics. The tender price should include necessary installation cost.	

## 2. Grid connected Single Phase Solar Inverter

Major Specifications	Quantity
Output Power:	1200 VA / 230V
No. of Phases	Single
Efficiency:	>90 %
AC Output Voltage:	200V-240V 1-phase
DC Input:	22V - 60V
Frequency Range:	48Hz - 52Hz Auto
MPPT Tracking:	20V - 52V
External control of active power output (with 36 V battery connected at input)	through 0-10 V analog DC signal
External control of reactive power output (with 36 V battery connected at input)	through 0-10 V analog DC signal

Sd/

Dr. Rajarshi Gupta.

Professor & HoD

Department of Applied Physics, CU

For queries related to this tender, please contact: [bkaphy@caluniv.ac.in](mailto:bkaphy@caluniv.ac.in); or [rgaphy@caluniv.ac.in](mailto:rgaphy@caluniv.ac.in).