

Haldia Institute of Technology
An Autonomous Institution
(A Unit of ICARE)

Sealed quotations (in the prescribed format only) are invited from the resourceful vendors for the following to be used in the project entitled “**Rooftop Solar Photovoltaic DNN-Based Vector Control PMSM Drive System for Modern Multipurpose Agricultural Application**”. Last date of submitting quotation is 21/04/2025.

(The Institute has the right to cancel the quotation if not mentioned the specification of the component and not maintained the format.)

Principal
HIT

S.No.	Item	Specification	Qty. Reqd.	Unit Price	Appl. GST	Unit Price Including GST
1	Solar PV cell based off-line AC 230 V output with motor and control unit	<ul style="list-style-type: none"> • 200-watt solar PV panel, angle change facility of PV cells $\pm 90^{\circ}$. Inbuilt Angle Finder. Portable stand. Provision of indoor use under HALOGEN light (in lower efficiency). • PV cell performance analyzer with inbuilt DC multifunction meter. <i>PC interface for online data.</i> • <i>PV power simulator</i> 200-watt 12 Volt. • Smart hybrid solar sine wave <i>inverter with battery management system, MPPT</i> system. • AC output power performance analyzer with inbuilt AC MFM, PC MODBUS for online data capture. • Isolated DSO to measure output AC Voltage and current wave form. • <u><i>Output terminal of solar panel will be connected with:</i></u> either with <u><i>BLDC motor drive/PMSM with vector control</i></u> which will be compatible with PV output. • Provision of pulse and output view and capture facility in DSO. • Portable pyranometer, PC based DSO 20MHz, Relevant online software for DC meter and AC meter. 	1			