



MAHARAJA HARISINGH AGRICULTURAL COLLEGIATE SCHOOL

NAGBANI, JAMMU

Affiliation No. : 730007

School Code : 23506

Ref. No. MHAC/F-10/3076

Date 10/06/2026

TENDER NOTICE


Sealed tenders are invited from reputed manufacturers, authorized dealers, and experienced agencies for the Design, Supply, Installation, Testing, Commissioning, and Handing Over of 50 kW + 50 kW (Total 100 kW) Grid-Connected Solar Photovoltaic Power Plant at MHAC School Nagbani. The detailed technical specifications and other requirements are available on the school website www.mhacnagbani.com. Each tender should be accompanied by the CDR in the name of Principal, MHAC School Nagbani equivalent to 2% of the total value of contract.

The bidder should:

1. Be a registered firm/company engaged in the business of solar power system supply and installation.
2. Possess valid GST, PAN, and other statutory registrations.
3. Have experience in executing similar solar PV projects.
4. Submit all supporting documents along with the bid.

Interested bidders shall submit their sealed bids in the MHAC School Nagbani, Jammu on or before 20-06-2026. For any on site clarification, interested parties may visit the school during working hours.

The School reserves the right to accept or reject any or all tenders, wholly or partly, without assigning any reason.



Principal

MHAC School Nagbani

MANAGED BY - DAV COLLEGE MANAGING COMMITTEE, CHITRA GUPTA ROAD, DELHI

Address - MHACS, Nagbani, P.O. Dumana, Jammu-Tawi (J&K) 181206

Tel-0191-2604342, 2604113 / e-mail - mhacnagbani@yahoo.com, principalmhacnagbani@gmail.com / web site - www.mhacnagbani.com

Terms & Condition of Procurement of Solar System

1. Capacity :- 50K Wp
2. PV Module Capacity:- 540 Wp

Technical Specifications:-

Solar PV Modules / Panels

IEC 61215 and IS 14286	Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
IEC 61701 : 2011	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules.
IEC 61853 – 1:2011 IS16170- 1:2016	Photovoltaic (PV) Module performance testing and energy rating Irradiance and temperature performance measurements, power rating
IEC 62716	Photovoltaic (PV) Modules – Ammonia (NH3) Corrosion Testing (As per the site condition like dairies, toilets)
IEC 61730 – 1,2	Photovoltaic (PV) Module Safety Qualification – Part 1 : Requirments for Construction, Part 2: Requirments for Testing
IEC 62782	Photovoltaic (PV) modules – Cyclic (dynamic) mechanical load testing

Solar PV Inverters

IEC 62109 & IS: 16221	Safety of Power converters for use in photovoltaic power systems Part 1 : General requirements, and Safety of power converters for use in photovoltaic power systems Part 2 : Particular requirements for inverters. Safety compliance (Protection degree IP 65 for outdoor mounting, IP 54 for indoor mounting)
IS/IEC 61683 latest (as applicable)	Photovoltaic systems – Power Conditioners: Procedure for Measuring Efficiency (10%, 25%, 50%, 75% & 90-100% Loading Conditions)
IS : 16169 :2016/ IEC 62116 : 2008	Utility –interconnected Photovoltaic Inverters – Test Procedure of Islanding Prevention Measures
IEC 60068-2 / IEC62093 (as applicable)	Environments Testing of PV Systems – Power Conditioners and Inverters

Fuses

IS/IEC 60947 (Part 1, 2 &3), EN 50521	General safety requirements for connectors, switches, circuit Breakers
	(AC/DC):
	1) Low – Voltage Switchgear and Control-gear, Part -1 : General rules
	2) Low- Voltage Switchgear and Cotrol-gear, Part -2 : Circuit Breakers
	3) Low – voltage switchgear and Control –gear, Part-3 : Switches, disconnectors
	switch-disconnectors and fuse – combination units
	EN 50521 : Connectors for photovoltaic system – Saftey requirements and tests
IEC 60269 – 6: 2010	Low –voltage fuses – Part 6 : Supplemenatry requirements for fuse – links for the protection of Solar photovoltaic systems

Solar PV Roof Mounting Structure

IS 2062/IS 4759	Material for the structure mounting
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Surge Arrestors

BFC 17-102:2011	Lighting Protection Standard
IEC 60364 -5 -53 / IS 15086 – 5 (SPD) IEC 61643-11:2011	Electrical installations of building – Part 5-53: Selection and
	erection of electrical equipment – Isolation, switching and control Low-voltage surge protective devises – Part 11 : Surge protective devices connected to low-voltage power systems – Requirments and test methods

Cables

IEC 60227 / IS 694, IEC 60502/IS 1554 (Part 1 & 2) / IEC69947 (as applicable)	General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and inculding 1100 V, and UV resistant for outdoor installation)
BS EN 50618	Electrical cables for photovoltaic systems (BT(DE/NOT)258), mainly for DC cables

Earthing / Lighting

IEC 62561 Series (Chemical earthing)	IEC 62561-1
	Lightning protection system components (LPSC) – Part 1:
	Requirements for connections components
	IEC 62561-2
	Lightning Protection system components (LPSC) – Part 2 :
	Requirments for conductors and earth electrodes
	IEC 62561 – 7
Lightning protection system components (LPSC) – Part 7 :	
Requirments for earthing enhancing compunds	

Junction Box

IEC 60529	Junction boxes and solar panel terminal boxes shall be of the thermoplastic type with IP 65 protection for outdoor use, and IP 54 protection for indoor use
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Energy Meter	Bi-directional Energy Meters shall be provided by DISCOMs
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A. Scope of Work and Consideration

Brief Description	Installer's Scope
Supply of PV Module, Inverter & BOS items as necessary to set up solar plant of rated capacity as specified in section (I) – A.	✓
Installation of PV Module, Inverter & BOS items as necessary to set up solar plant of rated capacity as specified in section (I) -A	✓
Testing & commissioning of PV Module, Inverter & BOS items as necessary to set up solar plant of rated capacity as specified in section (I) – A	✓
Safe and proper access to the roof via a staircase and a defined pathway for Installation and maintenance activities	✓
Adequate covered, dust free, and well ventilated space for the installation of inverters, batteries and switchgears	✓

PROPOSED MAKE LIST

S.No.	Item	Proposed Make
1	Solar Module	Exide
2	Solar Inverter	Exide
3	Module Mounting Structure	Standard
4	DC switch gear	OBO/Mersen/Equivalent
5	AC switch gear	ABB/Schneider/Equivalent
6	DC Cables	Polycab/KEI/Equivalent
7	AC Cables	Polycab/Equivalent
8	Earthing System	SABO/JMV/Equivalent
9	Lightning Arrestors	SABO/JMV/Equivalent
10	Cable Accessories	Reputed