

MGN PUBLIC SCHOOL, URBAN ESTATE, JALANDHAR

NOTICE INVITING TENDER

Last date and Time for submission of Tender documents is 20/01/2026 by 12:00 PM.

Date: 08.01.2026

Design, Supply, Installation, Testing & Commissioning of a 100 KW & 150 KW Grid-Connected Solar PV Power Plant on a School Campus

1. Scope of Work

The work includes the **Design, Supply, Installation, Testing & Commissioning of a 100 KW & 150 KW grid-connected solar PV power plant** on the school campus with net-metering connection to the local DISCOM. The contractor shall also provide **5 (five) years comprehensive operation & maintenance (O&M)** after commissioning.

The system shall be **turn-key**, including all components, civil works, earthing & protections, testing, commissioning, training of staff and handing over complete documentation.

2. Eligibility Criteria

Bidders must meet the following minimum criteria:

1. The bidder should be a **registered Indian company/firm** with GST and PAN.
2. The bidder/OEM must be **MNRE-approved / BIS-certified** solar system integrator or equivalent.
3. Bidder should not be blacklisted/debarred by any Government department.

3. Technical Specifications (Key Highlights)

3.1 Solar Modules

- **Type:** N-Type TOPCON
- **Minimum Rated Power:** ≥ 590 Wp per module
- **Efficiency:** $\geq 20\%$
- **Standards:** IEC 61215, IEC 61730 / IS 14286 equivalent BIS standards
- **Warranty:** Minimum 10 years of Product Warranty and 25-year performance warranty.

3.2 Inverters

- **Type:** String / Central grid-tie inverters
- **Efficiency:** $\geq 97\%$
- **Compliance:** BIS Approved and ISI marked.
- **Warranty:** Minimum 10-year On-Site warranty.

3.3 Mounting Structure

- **Material:** Hot-dip galvanized steel / suitable corrosion-resistant coatings
- **Design:** Tilt angle optimized for location
- **Design Standards:** The structure must be engineered for optimal heat dissipation and certified to withstand wind speeds of at least 120km/h.

3.4 Balance of System (BoS) & Accessories

- **Cables:** XLPE insulated, UV-resistant, suitable for rooftop PV
- **Protection:** Surge protection, string fuses, AC/DC isolators
- **Earthing & Lightning Protection:** As per IS/IEC standards
- **Monitoring:** Real-time performance monitoring (web dashboard preferred)

3.5 Net-Metering & Integration

- Work includes interface with school's LT panel & net-metering equipment as per DISCOM requirements.

For Queries, if any, email at mgnue2@gmail.com or Contact Us at 0181-2441666/2441777. Website: <http://www.mgnurbanestate.org>