

GOA STATE INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

**Construction of Panchayat Building for Village Panchayat Pale - Cotombi, Bicholim,
Goa**

Tender Notice No.: GSIDC/ENGG./NIT-08/2025-26 - Line B DATED 04/04/2025

CORRIGENDUM -I

Date : 11th April 2025

SR. NO.	VOL NO.	BOQ Item No.	PRESENT DESCRIPTION	MODIFIED DESCRIPTION
(1)	III	PFW14	Providing & applying of texture paint for the external walls, with one coat for primer & 2 coats of external weather coat, ultima Protek paint. (Including off scaffolding). Rate includes substrate treatment, primer coat, three or more coats with acrylic exterior paint of approved brand and manufacture (such as weather shield, APEX) using suitable tools as per manufacturer's specifications of brand approved by Engineer	Providing & applying of texture paint for the external walls with standard exterior sand texture elastomeric paint based on synthetic resin emulsion for creation of various texture patterns of approved brand and as per manufacture specifications. Rate includes substrate treatment, primer coat, texture paint, top 2 coats of Apex ultima Protek paint or equivalent as approved by Engineer.

ADDENDUM -I

ADDENDUM I – TECHNICAL SPECIFICATION (ELECTRICAL WORK)

SOLAR ROOF TOP SYSTEM

1. GENERAL

All rooftop solar photovoltaic (PV) installations in India must adhere to relevant Indian Standards (IS), International Electrotechnical Commission (IEC) codes, and the technical guidelines issued by the Ministry of New and Renewable Energy (MNRE) and the Goa Energy Development Agency (GEDA). Key applicable standards include IS 14286 / IEC 61215 for module qualification, IEC 61701 for salt mist corrosion, IS 2062 and IS 4759 for mounting structure materials, IS 3043 for earthing, IEC 62116 for anti-islanding, and IS/IEC 61683 for inverter efficiency testing. Compliance with Central Electricity Authority (CEA) regulations, IEEE 519

for harmonics, and CEA's connectivity standards for distributed generation resources is also mandatory. Installations should follow MNRE's latest technical specifications, quality control, safety, and metering guidelines. GEDA's local implementation rules and procedural frameworks must be followed for all solar rooftop systems within Goa.

2. TECHNICAL SPECIFICATIONS/SCOPE OF WORK:

- i. The technical specifications/Scope of Work for the grid-connected rooftop solar photovoltaic (SPV) power plant include comprehensive design, supply, installation, commissioning, and five years of maintenance and operation under a net metering system. The scope also includes wiring up to 25m to the distribution board, performance testing, coordination with DISCOMs and any of the Government Agency such as GEDA and Goa Electricity Department and documentation necessary for uploading to designated government portals for subsidy claims.
- ii. The system comprises crystalline silicon solar PV modules, grid-interactive power conditioning units (PCUs) with remote monitoring, optional battery backup for one hour, mounting structures, junction boxes, earthing and lightning protection, and UV-protected PVC cables. The modules must be of Indian origin with an efficiency of at least 14%, and power output guarantees of 90% at 12 years and 80% at 25 years. All modules require robust identification and must comply with IEC 61215/IS 14286, IEC 61730, and IEC 61701 standards.
- iii. Mounting structures must withstand wind speeds of up to 150 km/h and be constructed using galvanized steel per IS 2062 and IS 4759. Detailed configurations for different roof types (metal, RCC, elevated, etc.) are specified. The inverter must incorporate MPPT, have efficiency $\geq 95\%$, THD $< 3\%$, support anti-islanding per IEC 62116, and possess IP65/IP54 protection. It should allow grid export and online/cloud monitoring for systems above 10 kW.
- iv. The protection systems include grid islanding, surge, lightning, and earthing as per IS 3043 and IEC 62305. Cable specifications demand adherence to IS/IEC standards, with proper color coding, UV resistance, and minimized voltage drop.
- v. Instrumentation for monitoring includes data logging of voltage, current, power, and irradiance, along with real-time remote access. Grid metering must comply with bidirectional net metering protocols. Backup battery systems are to be designed for 1-hour autonomy, conforming to IS 1651/IS 13369, and safely installed.
- vi. The installation must include fire extinguishers, signage, tools, and safety measures per statutory electrical norms. Complete documentation, including system diagrams, operation manuals, and test certificates from accredited labs, must be provided. The operation and maintenance term may extend beyond five years upon agreement.

All equipment must meet BIS/IEC standards, and compliance with Central Electricity Authority (CEA), State Electricity Regulatory Commission and Goa Energy Development Agency (GEDA) guidelines is mandatory. Installations should preserve building waterproofing and safety. Components must follow MNRE's updated specifications and undergo quality assurance per prescribed standards.

Note: All other conditions remain unchanged.