Scope of Work

Cleaning of Elevated Aluminium Carport / Busport Solar Structure (826 kWp)

The contractor shall undertake the thorough cleaning of the existing elevated Aluminium carport/busport solar structure with an installed capacity of **826 kWp**. The contractor shall be responsible for providing all necessary labor, supervision, tools, ladders, equipment, consumables, Personal Protective Equipment (PPE), and suitable access equipment required to execute the work safely and efficiently.

1. Cleaning Requirements and Methodology

- Remove accumulated layers of dust, dirt, and loose debris from all accessible Aluminium structural members, including columns, beams, rafters, cross-members, bracing, mounting rails, brackets, and bolted connections. Cleaning shall be carried out using soft-bristle brushes, microfiber cloths, or industrial vacuum cleaners fitted with suitable soft-brush attachments.
- Where dry cleaning is insufficient, the affected surfaces shall be cleaned using clean water, soft cloths, sponges, or controlled low-pressure water application.
- Remove all detergent residue and remaining dirt using clean water, as required. The cleaning process shall not scratch, discolor, damage coatings, cause corrosion, or deteriorate the Aluminium structure or its protective finish.
- Before commencing full-scale cleaning, the contractor shall conduct a trial cleaning of a small designated area and obtain approval from the IBA representative.

2. Safety and Protection

- The contractor shall ensure that all cleaning activities are performed in accordance with applicable health and safety requirements, particularly those relating to working at height.
- All personnel shall be equipped with appropriate PPE, including safety harnesses and other fall-protection equipment, wherever required.
- The contractor shall provide suitable access arrangements, ladders, platforms, and equipment.
- The contractor shall take all necessary precautions to prevent damage to the existing structure, solar panels, electrical installations, surrounding property, and other associated infrastructure.
- Any damage caused by the contractor during the execution of the work shall be rectified at the contractor's own cost.

3. Completion and Acceptance Criteria

- Upon completion, all cleaned surfaces shall be free from visible accumulated dust, dirt, detergent residue, and cleaning debris.
- The contractor shall remove all waste materials generated during the cleaning process and leave the work area clean, orderly, and safe.
- The completed work shall be inspected and accepted by the designated IBA representative. Any deficiencies identified during inspection shall be rectified by the contractor at no additional cost.

4. Work Execution and Handover Arrangement

- The cleaning work shall be carried out **one shed at a time**. Only one shed shall be handed over to the contractor for cleaning at any given time.
- The contractor shall complete the cleaning of the assigned shed to the satisfaction of the designated IBA representative before proceeding to the next shed.
- The contractor shall coordinate with the IBA representative regarding the handover and completion of each shed to ensure smooth execution without disrupting normal institutional operations.

5. Contractor's Experience

- The contractor must have proven and demonstrable experience in carrying out similar cleaning and maintenance works involving elevated Aluminium structures, solar carports, busports, or comparable commercial/industrial structures.
- Preference shall be given to contractors with prior experience of working at height and handling large-scale Aluminium structural installations.
- The contractor shall provide details of relevant completed projects, along with supporting evidence such as work orders or completion certificates demonstrating experience in similar assignments.
- The contractor must have adequately trained personnel and the necessary safety arrangements to undertake elevated cleaning activities.