

# Design, Supply, Installation, Testing & Commissioning of 238 kWp Roof Mounted & Shed Mounted Grid Tied Utility Interactive Photo Voltaic Solar Power System at IBA City Campus

## MINUTES OF MEETING

**Subject:** IBA City Campus 238.0kWp Solar System Pre-Bid Meeting Meeting No. :

# 01

**Client:** IBA-KHI

**Dated:** Sep 20, 2024

**Time:** 11 30 Hrs.

**Venue:** IBA City Campus-Karachi.

### Participants:

IBA's Representatives
<ul style="list-style-type: none"> <li>Nasim ul Haque (Senior Manager Projects)</li> <li>Muhammad Rameez (Senior Manager Projects)</li> <li>Hassan Ilyas (Assistant Electrical Engineer)</li> </ul>

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**Deliberations:**

**1. Bid Opening Date Extension**

- All bidders have requested an extension of at least two weeks for detailed submissions.

**2. Structure Type and Material**

- The auditorium roof structure will be designed as ground mount/ballast type. The material specified for the structure is aluminium, as outlined in the Bill of Quantities (BOQ).

**3. Option for using Elevated Structure instead of ballast type structure on fysical bank roof**

- In order to enhance the energy yield it is proposed to use an elevated structure instead of ballast type which may enhance the energy yield yearly.
- All participating bidders are suggested to submit as an option cost for an elevated structure on sperate letter head stating details specification & drawings of their proposal. No price should be quoted on provided BOQ for any proposed option, It shall be submitted separately.
- In order to enhance the energy yield it is proposed to used an elevated structure instead of ballast type which may enhance the energy yield yearly.
- The second option submission for elevated structure is mandatory for all participants.

**4. In order to provide uniformity in quoted rate by the bidders, it is proposed that elevated structure specifications should be as under:**

- **Column/Pole Size:** 4" x 4" in 12 gauge. Columns may be circular or square shape.
- **Base Plate Size:** 10" x 10" with 10mm thickness.
- **Top Plate Dimension:** 6" x 6" with 6mm thickness.
- **Sharing Girder:** Not acceptable in elevated structure design.
- **Tilt Angle:** Must be optimal for energy generation.
- **Cleaning Space:** Adequate cleaning space must be incorporated.
- **Material:** Elevated structure must be Hot Dip Galvanized (HDGI).
- **Gauges:** All gauges will be assessed before galvanization.
- **Fasteners:** All nuts, bolts, and washers must be SS304.

**5. Panel Cleaning Ladder**

- The cost for the moveable cleaning ladder will be included as part of the elevated structure proposal.

**6. Mobilization Advance Requirements**

- Bidders must provide a bank guarantee for mobilization advance; insurance guarantees are not acceptable.

**7. Mandatory Requirements for Bidders**

- Bidders must fulfil all mandatory requirements. Any failure to provide required information will result in disqualification.

**8. Copper Link Upgradation**

- Any necessary upgrades for copper links for Solar AC cable connections must be included in the financial proposal.

**9. Earth Pits**

- All the bidders shall quote their rate for earth pits (AC/DC) by taking into consideration of the aspects given in BOQ.

Minutes Recorded By:

Hassan Ilyas

IBA Representative