

## Comparative Statement

### Procurement of 40 Kwp Solar Roof Mounted PV Systems with Net Metering at IBA Girls

### Hostel Staff Town University Enclave Karachi

### Tender # CW/04/23-24

Sr. No	Item	Make, Model & Country of Origin	Qty	Unit	M/s Feroze Power (Pvt) Ltd		M/s Solcraft (Pvt) Ltd / Technology Links (Pvt) Ltd. (JV)	
					Rate	Amount	Rate	Amount
1	CIVIL PAD Pr. Cement conc. civil pad 3000 psi cylindrical strength of size mentioned below approval of Engineer In-charge a) 300x300x300mm b) 300x300x150mm	Local	100	Each	1,861.40	186,140.00	1,900.00	190,000.00
			100	Each	1,489.44	148,944.00	1,900.00	190,000.00
2	<u>Mounting Structure</u> Providing & supplying at Site of Aluminum Z-Perlin L1/P1 Roof Mounted Structure With Front & Back Leg strong enough to sustain design wind pressure as per specification & drawing. For further details refer drawing: Front leg height 216mm,5mm Back leg height 126mm, 5mm	Local	140	Each	14.89/- (Per watt)	301,723.50	2,300.00	322,000.00
			140	Each		301,723.50	1,900.00	266,000.00
3	<u>PV Module</u> Providing, supplying & installation at site 550W Tiger Pro 72HC Photovoltaic Solar Modules Tier 1 Type anti-reflective high transparency low iron tempered glass, with earthing provision 550 watts Min. The Supplier shall provide all documents (Manufacturer warranty for solar panel for a period not less than 25 years., Type Test Report, Flash Report, COC, and PSI Report).	Jinko, China, or equivalent	40 KWp  (73 Nos)	KWp	58.06/- (per watt)	2,352,301.00	40,500.00	2,956,500.00
					32,223.3/- (per panel)			
4	<u>DC Breaker Box</u> Providing, Laying, installation, testing & Commissioning of DC Box/Array Junction Box local fabricated 16 gauge, wall mounted, MS powder coated, Glands, Lugs, wiring duct with all accessories for outdoor usage with water proof enclosure at least IP54 rating. Qty:5 DC Breakers 4 Pole MCB DC Protection 20A,1500VDC 4 Pole MCB per string	Schnieder/ Chint China /Germany or equivalent	1	Each	52,751.00	52,751.00	75,000.00	75,000.00
							67,000.00	67,000.00
5	<u>DC Cables</u> Providing, & supplying at site of DC Cables: TUV Certified Tinned Coated 1Cx4mmsq,1500VDC ,Cu/XLPO/XLPO, Red & Black Red 600 Meter Black 600 Meter	China, Turkey or equivalent confirming to standard :EN50618 & EN 60228	1200	Meter	211.00	253,200.00	182.30	218,760.00
6	<u>Earthing Cables</u> Providing, and supplying at site Single Core 2.5/4 sqmm, CU/PVC/FLEX (Green)	Pakistan Cable or Fast Cable or equivalent confirming to standard Pakistan Cable or	180	Meter	471.38	84,848.40	777.70	140,000.00



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					M/s Feroze Power (Pvt) Ltd		M/s Solcraft (Pvt) Ltd / Technology Links (Pvt) Ltd. (JV)	
Sr. No	Item	Make, Model & Country of Origin	Qty	Unit	Rate	Amount	Rate	Amount
7	Single Core 10 sqmm Bare Conductor	Fast Cable or equivalent confirming to standard	50	Meter	806.78	40,339.00	3,739.00	186,950.00
8	Lightening Protection Sys. Providing, laying, installation, testing & commissioning of Copper Lightning Arrester Pure copper with 1 meter rod & Ball size almost 4 inch with spikes		1	Each	27,306.40	27,306.40	130,000.00	130,000.00
9	Electrical Accessories a) MC-4 Connectors b) UPVC Conduit & fittings c) Cables Thimbles d) Epoxy e) Cable Ties f) Cable Tray	Misc.	Lot	L/S	160,919.00	160,919.00	216,000.00	216,000.00
10	Mech accessories a) Rawal Bolt b) Mid Clamp c) End Clamp d) Screws & Nuts	Misc	Lot	L/S	40,230.00	40,230.00	96,000.00	96,000.00
11	Installation at Site Electrical, Mechanical & Commissioning Installation Services Includes: a) Mounting of PV Modules & Solar panels carrying from ground to roof. b) Mounting of DC Combiner Box. c) Cable Laying ( All type) in conduit & cable tray as per site requirement. d) Civil Pads Placements from Ground to Roof.	-	Lot	L/S	9.0 (per watt)	364,591.00	287,750.00	287,750.00
12	Earthing Earthing System. Supply installation, testing and commissioning of Earth electrode (Rod type) for earthing system with 25mm Dia 3 meters (10feet) long, driven copper rod, complete with clamps lugs, washer/bolts, connected with 2x70sqmm bare copper earth conductor to Earth connecting point including 50mm Dia G.I pipe/UPVC pipe class 'D/E' up to earth chamber. Including all accessories and RCC inspection chamber, heavy duty G.I cover having earth symbol. Earthing result should be less than 5 ohm	Local	3	Nos	74,472.00	223,416.00	288,000.00	288,000.00
13	Net Metering Service of Grid Study& Net Metering Application Process & Handing as per K-Electric & NEPR approved Criteria Complete in all respect Which also include the services Charges for 140 KWp (100KWp+40 KWp) However all the Challans & Fees shall be Paid by IBA directly.					31,030.00		30,000.00
14	Transportation, Installation, O&M for 1 year, taxes (on applicable items only)					854,632.00		400,000.00
<b>Total quoted prices (sum of all types of systems)</b>						<b>5,424,094.80</b>		<b>6,059,960.00</b>

  
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