



# KHYBER PAKHTUNKHWA HUMAN CAPITAL INVESTMENT PROJECT



The Govt. of Khyber Pakhtunkhwa received financing from the World Bank toward the cost of the 6421PK, Khyber Pakhtunkhwa Human Capital Investment Project and intends to apply part of the proceeds toward payments under the contract for Procurement of Energy Management System through solarization as per details mentioned in RFB.

The PMU, KP-HCIP, Health Department Govt. of the Khyber Pakhtunkhwa invites sealed Bids from eligible Bidders to provide goods and services for complete End to End Energy management system through solarization in healthcare facilities of 04 selected districts.

## **EVALUATION CRITERIA**

S.No	Parameters	Criterion List	Maximum Marks
1.	Company Profile	Minimum 3 Yrsr (Mandatory): 1 mark for each year beyond 3 years	15
2.	Projects Completed in last five years	Each project will be vetted as follows Above 100KW and Below 150 KW= 7.5 Marks Above 150 KW and Below 200 KW= 10 Marks Above 200 KW = 15 Marks	30
3.	List of Technical Staffin the specified domain	<ol style="list-style-type: none"><li>BSc Electrical Engineers (Professional) experiences is equal to 5 years or above up to maximum of 04 marks (For Each Professional Engineer 02 marks will be awarded).</li><li>BSc Electrical Engineers (Registered with PEC) ----- up to maximum of 04 marks (For Each Registered Engineer 2 marks will be awarded)</li><li>Associate/Sub Engineer (Electrical) ----- up to maximum of 02 marks (For Each Associate/Sub Engineer 01 mark will be awarded)</li></ol> <b>Note: CV's to be provided with each employee</b>	10
4.	Physical presence/ office	Set up in Peshawar= 2 Marks	02
	Technical Specification/ Design	Marking will be done on the following Criterion: <b>Solar Panels</b> (Make China-5 marks, European Brand-4 marks, American brands-3marks) <b>Inverters</b> (Make China-5 marks, European Brand-4 marks, American brands-3marks) <b>Circuit Breaker</b> (Make European Brand-5 marks, American brands-4marks, China-3 marks) <b>Main Switches</b> (Make European Brand-5 marks, American brands-4marks, China-3 marks)	20
5.	Financial Capability	Average Turnover of the last three years $\geq$ Rs.50 M=23 Marks Average Turnover of the last three years $\geq$ Rs * 0.12 M & below Rs. 50M = 12 Marks Average Turnover of the last three years $\geq$ Rs * 0.1 M & below Rs. 40 M = 9 Marks 15 Average Turnover of the last three years $\geq$ Rs * 0.8 M & below Rs.	23

		30 M = 6 Marks Average Turnover of the last three years >= Rs * 0.6 M & below Rs. 20 M -3 Marks	
	Total		<b>100</b>

Note: Passing marks for technical qualification is 60 out of 100.

## SPECIFICATIONS for 20 to 100 kw Hybrid/ On Grid Solar Inverter System

<b>S.No</b>	<b>Products</b>	<b>Specifications</b>
1.	Solar Panels	PV Module: Brand: <b>JA/Jinko/Canadian/Longi</b> , 550+ watt Half Cut Mono Crystalline Tier-1 (A-Grade)
2.	Solar Inverter	20kw to 100kw Huawei / <b>Sungrow/ Growatt / Crown</b> Solar Inverter Net Metering & Mobile Monitoring Supported ( <b>03 Years Warranty</b> )
3.	Solar Structure	Shed Type Structure with Rust Free Mounting Accessories <b>H Beam Girder, Aluminium, Galvanized Iron , 10 to 14 Guage   20 Years lifetime</b>
4.	Electrical Cables	High Quality <b>AC/DC Cables 99% Pure Copper )</b> for Solar Panels and Grid Connections (4mm,6mm) (As Per Requirements) ( <b>Fast , Pakistan ,GM , Copper Gate )</b> Cables .
5.	Distribution Box	Protection Breakers (Brand: <b>Schneider/ABB/ Mora / Tomzn</b> ) for Solar Panels, Inverter, Grid Connection & Misc Items (PVC/Flexible Pipes, MC4 connectors, Thimbles, Rawl-Bolts, Distribution box etc)
6.	Safety & Misc items	Mechanical Accessories ( <b>Adam jee, Popular, Dadex, Turk Plast, JM_Reno,</b> ) Saddles, Anchor Bolts, Screws, Rawal plugs, Connector, Ties, Thimbles, Tapes, Nails etc). For Outdoor Installation, 125A or higher Main Circuit Breaker with 4 Poles assembled in a Powder Coated Iron Box
7.	Civil Work	Civil Work for Shed Type Structure (L=2" x W=2"x D=2")
8.	Transportations	Travelling and Transportation
9.	Earthing	Double DC Earthing for System (Minium Resistance Level Upto 0.5 to 1 Ohm)
10.	Net Metering	Net-Metering System: (Disco bill name change/Sanction Load/3 Phase Meter/ Phase Over Loop will be at customer Scope)
11.	Installation	Installation and Commissioning

Note: The total cost of the project is 27 M PKR or less than 100,000 USD.