



**PUNJAB RURAL MUNICIPAL SERVICES COMPANY
(PRMSC)**

A COMPANY SET UP UNDER SECTION 42 OF THE COMPANIES ACT, 2017



ADDENDUM

**Supply, Installation, Commissioning, Testing, Training & Net-Metering of
Solarization of Water Supply and Sewerage Schemes under PRSWSSP**

1. Government of the Islamic Republic of Pakistan (who has extended the financing to Punjab Rural Municipal Services Company) has received a loan from the **World Bank** (IBRD) towards the cost of the Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP).
2. This Addendum follows the “Specific Procurement Notice (SPN)” published in the “Business Recorded, Express, Jurrat and Merit News” under IPL No, 1342 dated February 15, 2024 and also on the websites i.e., <https://prmsc.punjab.gov.pk/tenders> and <https://lgcd.punjab.gov.pk/tenders>. This Addendum serves to notify that Section VII - Schedule of Requirements (**Technical Specifications**) shall be interpreted as follows:

**Section VII - Schedule of Requirements
Revised Technical Specifications**

Package-01, Tehsils: Liaqatpur, Rojhan, Alipur, Kahrora Pakka and Shujabad PK-LG&CD-383317-GO-RFB		
Package 02, Tehsils: Taunsa, Ahmedpur Sial, Bahawalnagar, Khairpur Tamawali and Pakpattan PK-LG& CD-383320-GO-RFB		
Package 03, Tehsils: Bhowana, Darya Khan, Isa Khel, Kot Momin, Noorpur Thal and Kalar Kahar PK-LG& CD-383321-GO-RFB		
Sr. No.	Item	Description
1	Solar PV Modules	<ul style="list-style-type: none">• IEC 61215 Certified• Application/ Safety Class II• n-type• Tier 1 Manufacturer for Q3/Q4 of 2021• 500W to 600W with positive tolerance only (575W – 585W)• 20% to 25% module efficiency• Warranty as per manufacturer• Material and Workmanship Warranty as per manufacturer• Power Output after 25 Years \geq 85%• PID Resistant• Power Loss Coefficient of $-0.39\%/^{\circ}\text{C}$ or lesser• Barcode Identification• Efficiency at $200 \text{ W/m}^2 > 96\%$ of STC- IP 65 Rated Junction Boxes, dust and vermin proof with Copper Bus Bar Terminals, EPDM rubber gasket, MOVs and Reverse Blocking Diodes• Compliance with S.R.O 604
2	Mounting Structure, Civil Works and Foundations etc.	<ul style="list-style-type: none">- UV resistant, Galvanized Steel Frame of Gauge 12 with atleast 85 micron or thicker zinc coating- Tilt: 25° or As per site requirement- Anodized Aluminum Frames if proposed shall be preferred- Spacing between rows should be more than 1.5 times the height of mounting structure- Shall Withstand Wind speed of 150 km/h- Galvanic Isolation- Site Specific Design- Complete Civil Works
3		- Power Options for Grid, Generator and Solar PV

	VFD and Associated Sensors	<ul style="list-style-type: none"> - Auto Start Stop with Any Input Power - Self Diagnostic and Self Protection · Dry Run Protection · Digital Controls with Complete Protective Functions · IP65 (By default or with enclosure) · AC Short Circuit Protection · Under/Over Voltage and Over Current Protection · Reverse current Blocking · -10 to +40 Degree Celcius · AC and DC Rated Voltage matching with the motor · 5 Years warranty or manufacturer recommended warranty whichever is more
4	On Grid Inverter	<ul style="list-style-type: none"> - Power Options for Grid, Generator and Solar PV - Auto Start Stop with Any Input Power - Self Diagnostic and Self Protection · Dry Run Protection · Digital Controls with Complete Protective Functions · IP65 · Ground Fault Monitoring · AC Short Circuit Protection · Under/Over Voltage and Over Current Protection · Reverse current Blocking · -10 to +40 Degree Celsius · AC and DC Rated Voltage matching with the motor · 5 Years warranty or manufacturer recommended warranty whichever is more
5	DC Cables, AC Cables, Earthing Wires, Conduits, Connectors, Cable Ties etc.	<p>DC and AC Cables:</p> <ul style="list-style-type: none"> - 99.99% Copper Cables - Shall be sized such that 30% spare capacity remains at operating temperatures of 90 °C - UL 4703 compliant Low Smoke Halogen Free - BS 6004 and BS 7644 Compliant - Conduits shall have 30% to 35% spare capacity - Trenching and all Civil Works - Seamless Terminations - Perforated Cable Trays - Avoid Direct Sunlight and Direct Clamping of Cables - Should not be physically accessible for routine works - Earthing and Lightning Protection as per Electricity Act of Pakistan - Labeling of all strings/ equipment shall be mandatory · UPVC/Corrugated PVC Pipes and Cable Trays
6	Breakers, Surge Arrester, Combiner Boxes etc.	<ul style="list-style-type: none"> · Circuit Breakers - Protection Devices · Separate DC and AC earthing each with 3 Ohms or lesser resistance · Non-Isolated Lightning Arrestors · Protection against lightning currents - IP 65 Rated Cabinets
7	Transportation, Installation, Lab Testing and Commissioning Costs	<ul style="list-style-type: none"> · Delivery, Installation and Testing of all equipment delivered against the P.O · Complete Works in all respects
8	Installation of Green Meter alongwith all necessary test	Complete Job in all respect including all government approvals and processes for Generation License
Services:		
9	Operational & Maintenance	For the operations and maintenance of installed system, provision of two operators (for each site) for one year after successful completion of project.
10	After Sale Service	Two Years comprehensive free after sale service that during five (05) warranty period or manufacturer's standard warranty whichever is more. The Comprehensive aftersales services shall be covering all preventative and corrective actions, including all related costs, such as, but not limited to

		workmanship, spare parts, repair work, transportation, duties and taxes, clearance costs of spare parts etc., without any cost.
11	Insurance	The bidder shall furnish a one-year comprehensive insurance for complete system, encompassing coverage for damages, theft, and all associated risks.

3. All other terms and conditions will remain same.

Chief Executive Officer

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