

TECHNICAL EVALUATION REPORT

(As Per Rule 35 of PP Rules, 2004)

1. Name of Procuring Agency:National Disaster Management Authority.....
2. Method of Procurement:Open competitive bidding.....
3. Title of Procurement: Installation of Solar Power System
4. Tender Inquiry No.: TN-16(2025-26).....
5. Date & Time of Bid Closing: 15-1-2026 at 1100 hours.....
6. Date & Time of Bid Opening: ...Technical 15-1-2026 at 1130 hours
7. No of Bids Received: 07.....
8. Criteria for Bid Evaluation:As per bidding documents
9. Details of Bid(s) Evaluation:As detailed below.....

Name of the firm	Technical compliant / Non-compliant	Rule/Regulation/SBD*/Policy/ Basis for Rejection / Acceptance as per Rule 35 of PP Rules, 2004.
M/s Arista Solutions	Non-Compliant	Detailed evaluation report is attached
M/s M/s I4 Junction	Non-Compliant non-submission of the original bid security	

Signature:



Official Stamp:

Abdul Latif
Director (Proc)
National Disaster Management Authority
Prime Minister's Office, Islamabad

TECHNICAL EVALUATION PROFORMA – SOLAR POWER SYSTEM

Annex 'B'

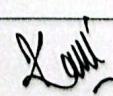
Ser	Specifications			C/NC	M/s Arista Solutions
1.	General Requirements	The system shall be designed, supplied, installed, tested, and commissioned by a qualified OEM/installer, firm.		C/NC	NC
		All equipment must comply with IEC, ISO, and relevant national standards for solar PV installations.		C/NC	NC
		The system shall operate reliably under local climatic conditions with an expected life cycle of 25 years for PV modules and 10 years for inverter.		C/NC	NC
		All components must be brand-new, high- efficiency, and from reputed manufacturers.		C/NC	NC
		Contractor shall provide all accessories, connectors, mounting structures, wiring, earthing, lightning protection, and documentation.		C/NC	NC
2.	Solar PV Power	PV Modules	Type: Grande -A Tier I Solar Panels Bifacial N Type (12 years manufacturing and 25 years performance Warranty) (Company Standard warranty)	C/NC	C
			Capacity: Total installed capacity \geq 10,000 Wp	C/NC	C
			Module wattage: 600+Wp each (or equivalent)	C/NC	C
			Efficiency: \geq 20%	C/NC	C
			Cell type: 144 half-cut cells or equivalent	C/NC	C
			Frame: Anodized aluminum, corrosion resistant	C/NC	C
			Glass: Tempered, \geq 3.2 mm, low-iron, anti- reflective	C/NC	C
			Junction Box: IP67/IP68 with bypass diodes	C/NC	C
			Standards Compliance:		
			IEC 61215, IEC 61730	C/NC	C
			PID resistance as per IEC 62804	C/NC	C
			Warranty:		
			Product: 10 years	C/NC	C
3.	Solar Mounting Structure	Array	Performance: 25 years (80% output minimum)	C/NC	C
			Material: I beam elevated with U channel Structure (Leadoxide and Paint work)	C/NC	C
			Design: Fixed tilt as per site latitude (adjustable optional)	C/NC	C
			Wind Load Resistance: \geq 150 km/h	C/NC	C
			Installation: Ground-mount or rooftop as required	C/NC	C

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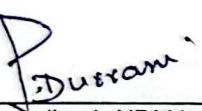
Ref	Specifications			C/NC	M/s Arista Solutions
		Standards: IS 875 / IEC structural safety guidelines		C/NC	C
		Electrical Specifications:			
		Type: Hybrid (Solar + Grid + Battery)		C/NC	C
		Rated Power: 8 kW (continuous)		C/NC	C
		Input Voltage Range (PV): 120–500 V DC		C/NC	C
		Maximum PV Input Power: ≥ 10 kW (For charging of batteries during day time)		C/NC	C
		MPPT: Minimum 2 MPPT trackers		C/NC	C
		Efficiency:			
		PV-AC efficiency $\geq 97\%$		C/NC	C
		MPPT efficiency $\geq 99\%$		C/NC	C
		AC Output:			
		Voltage: 230V $\pm 5\%$ single-phase / 400V three-phase (as required)		C/NC	C
		Frequency: 50 Hz		C/NC	C
		Surge Rating: Min 2x surge capacity for 5 seconds		C/NC	C
4.	Hybrid Solar Inverter – 8 kW	Functional Features	Smart monitoring via Wi-Fi/GPRS/RS485:		
		LCD touchscreen/LED display		C/NC	C
		Automatic grid changeover		C/NC	C
		Programmable charging modes (Solar First / Grid First / Hybrid)		C/NC	C
		Anti-islanding protection		C/NC	C
6.		Protection	PV reverse polarity:		
		Overload/Short circuit		C/NC	C
		DC/AC surge protection (SPD Type II minimum)		C/NC	C
		Battery overcharge/discharge		C/NC	C
		Over-temperature protection		C/NC	C
7.		Compliance	IEC 62109-1, 62109-2		C
		IEC 61683 (efficiency)		C/NC	C
		IEC 62116 (anti-islanding)		C/NC	C
8.		Warranty	Minimum 5 years, extendable to 10 years.		C
9.	Battery Bank (Optional Required)	If	Type: Lithium Iron Phosphate (LiFePO ₄) / VRLA Gel	C/NC	C
			Total Capacity: 10–15 kWh (as required for backup)	C/NC	C
			Depth of Discharge: $\geq 80\%$	C/NC	C
			Battery Management System (for LiFePO₄):	C/NC	C
			Built-in BMS with cell balancing	C/NC	C

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Sl. No.	Specifications			C/NC	M/s Arista Solutions
			Cycle Life:		
			LiFePO ₄ : ≥ 6000 cycles @ 80% DOD	C/NC	C
			Gel: ≥ 1500 cycles @ 50% DOD	C/NC	C
10.		Warranty	LiFePO ₄ – 5 years / VRLA – 3 years	C/NC	C
11.	Cabling, Earthing & Protection	Cables	Type: UV-resistant, XLPE/XLPO solar DC cable	C/NC	C
			Rating: 1000/1500 V DC for solar	C/NC	C
			Standards: IEC 62930 / TUV certified	C/NC	C
12.		Earthing	Dedicated DC earthing, AC earthing, and lightning protection	C/NC	C
			Earth resistance: ≤ 1 ohm	C/NC	C
13.		Protection Devices	DC isolator switch	C/NC	C
			AC isolator switch	C/NC	C
			SPD (Type II minimum, Type I if lightning-prone area)	C/NC	C
			MCB/MCB distribution board	C/NC	C
14.	Monitoring System	Real-time monitoring of:	PV production	C/NC	C
			Battery SOC	C/NC	C
			Grid interaction	C/NC	C
			Load consumption	C/NC	C
			Accessible via Web + Mobile App	C/NC	C
			Remote fault diagnostics	C/NC	C
15.	Solar LED Lights	Solar Street/ Area/ Garden Light Components	LED Power: 150-200 W high-efficiency LEDs	C/NC	C
			Lumen Output: 3000 lumens	C/NC	C
			Lighting Mode: Automatic dusk-to-dawn + dimming	C/NC	C
			Body Material: Aluminum alloy, corrosion resistant	C/NC	C
			Ingress Protection: IP65/IP66 weatherproof	C/NC	C
			Backup: Minimum 12 hours, ≥ 2 nights autonomy	C/NC	C
16.		Documentation & Deliverables	System design diagrams	C/NC	C
			SLD (Single Line Diagram)	C/NC	C
			PV System / equivalent generation report	C/NC	C
			Product datasheets & compliance certificates	C/NC	C
			Operation & Maintenance manual	C/NC	C
			Warranty certificates	C/NC	C
17.	Testing & Commissioning		Functional testing of inverter, PV modules, and protection systems	C/NC	NC
			Insulation resistance test	C/NC	NC



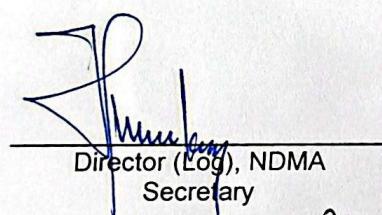
Spec	Specifications		C/NC	M/s Arista Solutions
		Polarity check	C/NC	NC
		Performance test at full load	C/NC	NC
		Street light functional test	C/NC	NC
18.	Warranty & Support	PV Modules: 10 years product, 25 years performance	C/NC	C
		Inverter: ≥ 5 years	C/NC	C
		Batteries (if included): 3–5 years	C/NC	C
		Solar Lights: 2–3 years	C/NC	NC
		Minimum 1 Year on-site service support	C/NC	NC
		Compliance/ Non-Compliance	Non Compliance	



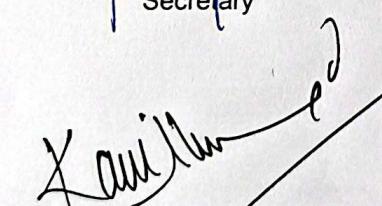
Deputy Manager (Log), NDMA
Member



Director (Legal), NDMA
Member



Director (Log), NDMA
Secretary



Member (Ops), NDMA
President Technical Committee