

Section 7. Technical Specifications

The Goods and Related Services shall comply with following Technical Specifications:

Item No	Name of Item or Related Service	Technical Specification and Standards	
1	2	3	
Goods:			
Supply, Installation, Testing and Commissioning of 40 KWp Rooftop Solar Power System for B-Type Residential Area of APSCL.			
A.	Solar PV Module	Description of item	Solar PV Module
		Country of Origin	To be mentioned
		Country of manufacturer	To be mentioned
		Address of the manufacturer (With contact no & email address)	To be mentioned
		Standard	To be mentioned
		Model Number	To be mentioned
		Type of Solar Cells	Monocrystalline
		Rated Power/Maximum power	At least 300Wp
		Power Tolerance	Positive
		Maximum Power Voltage (Vmp)	At least 33.0 V
		Maximum Power Current (Imp)	At least 8.80 A
		Open Circuit Voltage (Voc)	At least 39.0 V
		Short Circuit Current (Isc)	At least 9.00 A
		Front Glass	To be mentioned
		Backsheet	To be mentioned
		Frame	To be mentioned
		Front Load (Snow)	5400 Pa
		Static Load (Wind)	2400 Pa
		Operating Temperature	-40°C to +85°C
		Junction Box	IP67
Module Efficiency	To be mentioned		
B.	String Inverter	Description of item	String Inverter
		Country of Origin	To be mentioned
		Address of the manufacturer (With contact no & email address)	To be mentioned
		Standard	To be mentioned
		Model Number	To be mentioned
		Type of Inverter	Grid-Tie
		Maximum Power Point Tracking (MPPT) Voltage Range	To be mentioned
		Rated Output AC Power at unity power factor.	Minimum 10000W

B. Prasad

(A)

		Frequency	50Hz	
		Efficiency	To be mentioned	
		Self-consumption at Night	1 watt (max)	
		Protection	To be mentioned	
		Communication port	RS 485/ Modbus, Speedwire/ Webconnect	
		Ambient temperature range	-25°C to +60°C	
		Degree of protection	IP65	
		Display	To be mentioned	
		Data Logger	Should be available	
C.	Others	Circuit breaker		
		1.	Country of Origin	To be mentioned
		2.	Detail Ratings	To be mentioned
		Energy Meter		
		1.	Country of Origin	To be mentioned
		2.	Description	To be mentioned
		AC Cable (BYA)		
		1.	Country of Origin	To be mentioned
		2.	Detail Ratings	To be mentioned
		DC Cable (Flexible)		
		1.	Country of Origin	To be mentioned
		2.	Detail Ratings	To be mentioned
		PV Mounting Structure		
1.	Wind Speed	To be mentioned		
RELATED SERVICES :				
02.	As per "Schedule of Requirement" (B) of Section 06 and attached "বিশেষ শর্তাবলী" of Section 08.			