Technical Specifications of components in Rooftop PV system

SR. NO.	DESCRIPTION OF ITEM	SUPPLIER MAKE
A-1	**Modules-PolyCrystalline**	
1	PV Modules-Polycrystalline, 250 Wp-320 Wp range, including module interconnection MC4 Connectors (Indian Make with RFID TAG)	Waaree Solar, Vikram Solar, TATA Power Solar, Renewsys Solar, EMMVEE Photovoltaics
A-2	**Grid-tie Inverter**	
1	Grid-tie On-line Solar String Inverters with SPD on both DC & AC Side	SMA, Delta, Fronius, Schneider, Xantrex
A-3	**BOS Components**	
1	Single Core, Multistrand, 4 Sq. MM TUV approved Solar Cable for DC side	Lapp, Top, Leoni
2	Multistrand Cable for AC Side	Finolex, Polycab, RR Cable
2	MC4 Connectors suitable for 4 sqmm Cable (Male & Female)	Multi-Contact, Biz-link
3	UV Protected Cable Ties for Solar Cables	Surelock or Equivalent
4	Solar LT panels with generation meter and MCCB for isoltion	L&T/ Siemens/ABB
A-4	**Module Mounting Structures**	
1	Module Mounting AL Profiles, Rails etc. for Metal Sheet Roof	SAPA, PROINSO, Jurchen or Equivalent
2	Module Mounting Structure on RCC rooftops - Hot Dip Galvanised (80 Micron)	Local
A-5	**Grounding and Security System**	
1	Treated Earth Pits 50mm dia *3 mt Cu Bonded Earth Rods with back fill compound	Reputed
2	Lightning Arrestor-ESE or conventional type with Earth pit	JMV, SABO or Equivalent
3	GI Strip (25 x 3 mm) for Plant Earthing	Reputed
A-6	**Monitoring System, Cables and accessories**	
1	**Mandatory:** Generation Data Monitoring System with web based server and access of user id and	Reputed

	password to access the same to be shared with Savitribai Phule Pune University)	
	Optional: Weather monitoring system including of Irradiance sensor, Air temperature, Module temperature sensor, Power supply and accessories and data logger	
2	Wi-Fi /GPRS internet modem	Reputed
A-7	**Cable Trays and Accessories**	
1	Cable Tray of required sizes	Reputed
2	Cable glands, lugs, ferruls etc	Reputed
3	HDPE/ PVC pipes	Reputed
A-8	**Fire Fighting system**	
1	Danger Board	Reputed
2	Fire Extinguishers Equipments	Reputed
A-9	**Net-meter**	
1	MSEDCL approved Net-meter	Secure/ L&T