PARTICULAR SPECIFICATION

APPENDIX AM

SOLAR PHOTOVOLTAIC (PV) PANELS PROVISION FOR STATION

Appendix AM

Solar Photovoltaic (PV) Panels Provisions for Station

Purpose	-	To design and facilitate installation, access and maintenance of solar PV panels at station entrance ~~roof~~ and at-grade structures including RC and metal roofs
Location	-	Station entrance roof
Loading Requirements	-	Maximum 0.5 KN/m2
Classification of Room	-	External
Approximate area	-	Extent of solar PV panels to be coordinated with the Authority's M&E consultant and SWC. The area shall not be more than 8 degrees incline for safety of maintenance personnel.
Lighting level	-	Nil
Ventilation requirements	-	Natural ventilation
Power	-	Nil
Acoustic requirements	-	Nil
Communication requirements	-	Nil
Fire Protection	-	To comply with latest Code of Practice for Fire Precautions in Rapid Transit Systems (CPFPRTS) and/or prevailing fire code requirements
Security requirements	-	To comply with PTS requirements
Furniture and fittings	-	Fall arrest system and roof walkway system, as required.
Services	-	Contractor to coordinate and interface with Authority's In-house Designers ~~C1009~~ and SWC on the space (installation and maintenance) and cable routing associated with the solar PV installation
Remarks	-	Provide roof access for maintenance and to comply with latest CPFPRTS and/or prevailing fire code requirements
	-	Installation of solar PV panel will be provided by SWC.
	-	Coordinate and interface with the Authority's M&E Consultant and SWC and make necessary civil and structural provisions for installation of solar PV panel including structural loading of roofs, stumps, space for inverter panels, closets, cable risers, etc.
	-	Coordinate and interface with the Authority's M&E Consultant and SWC for the lightning equipotential bonding.
	-	Provide space for inverter panels at each of the station's entrances. The size of the inverter panels shall be coordinated with the Authority's M&E Consultant and SWC.
	-	Coordinate and maximize roof space for the installation of the Solar PV system as required by the Authority.