

Scope of Work for Design, Construction and Installation of Solar PV system

1. It is required to design, construct and install a Solar Photovoltaic Power system in Grid connected method at one of the following locations
 - a. 18, Albert Crescent – 280 kWh/day (10M average/30)
 - b. 65, Ledyard's Road – 210 kWh/day (10 M average/30)
2. The estimate should have 100%, 75% and 50% of total load criteria for each locating so that the American Embassy will decide the most suitable configuration as a pilot project
3. Vendor needs to carry out a site visit for the verification of required details and assessment of installation methods and structural rigidity (to avoid overstressed areas) of roof or slab for the PV panels. It is also required to check the spacing for electrical connections, metering and monitoring equipments.
4. The proposed system, accessories and all the installation work should be in compliance of **NFPA 70. NEC 2011. ARTICLE 690. Solar Photovoltaic (PV) Systems 690.4 Installation** (attached).
5. Any other related civil, mechanical, electrical, fabrication and carpentry works shall be completed by the vendor. It is required to carry out all the installation and related works in a presentable and aesthetically acceptable way so that the finishing will not distort the standard living condition of the location. Embassy will only provide assistant and escort for the necessary works.
6. Vendor needs to include dedicated lightning arrester or protection system that will be eventually protecting the complete PV system as per the manufacturer's recommendation. The functionality and the performance standard are sole responsibility of the vendor.
7. Vendor should also include the panel placement drawing together with the detailed technical brochures and description of their particular system. Placement of the panel, equipment and the accessories is a part of vendor's responsibility and it should meet the terms of manufacturer's recommendation. Any issues due to shadow, solar path, direction or angle will be solely addressed by the supplier.
8. All the installation works of the grid meter and accessories (Grid Interconnection) with the help of Ceylon Electricity Board will be done by the vendor and the necessary document for the approval and authorization will be issued for the selected supplier.
9. Selected vendor need to propose a maintenance agreement with the Embassy and the cost will be separately shown as a line item. Cleaning, service and maintenance of Solar PV Panels, Inverters, panel mounting structure, cabling and monitoring systems will be covered in this agreement as per the manufacturer's recommendation.

SITE VISIT

- A site visit has been scheduled for 1000 hours on August 8th Wednesday , 2012
- Participants will meet at 65, Ledyard's Road
- Contractors who wish to participate for the site visit, should contact GSO – Procurement Office of the Embassy on +94-11-2498525 before 1000 hours on August 6th Monday 2012