

Details of specification are as follows:

1. No of solar artifact structure is 3 (three) set.
2. Supply and installation will be at CSIR-CMERI-CoEFM Centre, Ludhiana, Punjab.
3. The structure should be shadow free such that there will not be any shadow among the panels.
4. Each artifact branch structure should be above 2.0 m (approximately) from ground level. The bidder should mention the dimensions (like min and max. height, width etc.) of solar tree structure. Each Solar artifact shall be grouted individually by providing suitable RCC/PCC foundation.
5. The tilt angle of solar panel module structure is 30°. The structure shall be designed to allow easy replacement of solar modules. The size of the panel frames should be considered for panel capacity 325-335 Wp. [Dimensions of PV panel are Length: 1950 -1980 mm; Width: 985-995 mm; Thickness: 35-45 mm;]
6. The structure along with foundation should be designed to withstand wind velocity 47 m/s. Supporting documents shall be submitted along with the bid for technical evaluation.
7. The material of foundation bolts will be of steel of grade 8.8 or equivalent material and all other nuts/bolts/ fastners should be stainless steel of grade SS 304 or equivalent material.
8. The painting should be anti-corrosive in nature. The tree structure should be hot dip galvanised or metal sprayed MS Structure of suitable size and minimum 85 micron thickness of galvanization or metal spray.
9. Suitable earthing system for solar artifact structure should be provided as per specification and relevant IS.

Scope of work:

1. Civil foundations, supply and installation of 3 x 11.5 (+/- 3%) kWp solar artifact structures with the above specification along with materials will be in scope of the successful bidder.

Warranty period of the solar artifact structure:

1. 5 years starting from the date of successful installation and commissioning of Solar Tree System.

Inspection:

1. Inspection before installation/dispatch of materials, as per relevant IS, will be conducted at the installation site/factory of supplier, in presence of our authorized representative.

Eligibility Criteria of Bidder:

1. The bidder shall submit their company profile giving details of manufacturing facilities etc.
2. The bidder shall have experience of successful completion or carrying out similar type of work, i.e. providing, supplying, installation and commissioning of similar type of structure. The bidder should provide certificate of carrying out such type work.
3. The bidder shall submit a certificate stating “This is to certify that, there is no deviation in the offer submitted by us, from the tender terms & conditions. In case, if there is any difference in any terms & conditions, the same may be ignored and considered to have been accepted by us in toto as per NIT”. The scanned copies of above certificate to be furnished.