

Minutes of the Pre – Bid Meeting held at the Board Room of the Institute in connection with the tender of Solar and Water project for AICTE Special Scheme under NE Region at Nalbari Polytechnic, Nalbari at 11:00 a.m. on 07.07.21.

The following modifications are made on 15 kwp Hybrid Solar Panel for Supply, Installation, Testing and Commissioning (SITC) and 5 years comprehensive warranty Maintenance on Tin Shed:

1. Capacity of the proposed SPV plant (kW _p)	:	15kWp (Hybrid)
2. PV Module type (Mono/Multi)	:	Monocrystalline PERC, Make Reputed Company of India
3. No. Inverter/ Power Conditioning Unit (PCU)	:	1 No.
<i>Inverter/ PCU specifications</i>		
Rated Capacity	:	15KW (≈ 18 kVA), MPPT type
Input Voltage	:	240V DC
Output Voltage Range	:	415V AC
System Voltage	:	240 V, 3-Phase
Frequency	:	50 Hz
Efficiency	:	>85%
Battery [Rated capacity (Ah) and Voltage (V)]	:	200 AH, 12 V, LMLA (Low Maintenance Lead Acid) With 5years of warranty
Wind load	:	150 km/ hr.
Mounting Structure	:	On Tin Shed
Earthing, earthing mat and lightning arrester (Type and material)	:	Chemical earthing with 25X3 mm GI Strip & Lighting Rod (Copper). 3 nos. separate Earthing to be installed with 3nos separate earthing pits each at a distance of 5ft from each other. Earthing resistance ≤ 3ohm.
Solar Street Light Specification	:	Height 6 Meter. Height from ground 5 Meter + 1 meter under earth with concrete structure. Pole shall be G.I. Pole.

In addition to that since a Hybrid Solar Plant has to be installed at the institute so, the required Net Meter and other necessary connections for On-Grid connection through APDCL should be the responsibility of the Contractor.