

# BANKURA UNNAYANI INSTITUTE OF ENGINEERING

## ADDENDUM

Tender Enquiry No: IE / 4 / V / 18 – 16.05.2018

As per the discussion had with the all member's of purchase committee existing specification should be change partially.

The following alteration shall be made to technical specification and shall become a part of Bid document.

Sr No.	Existing Specification	Revised Specification
<b>1. Solar Array Fuse</b>	<p>The cables from the array strings to the solar grid inverters shall be provided with DC fuse protection. Fuses shall have a voltage rating and current rating as required. The fuse shall have DIN rail mountable fuse holders and shall be housed in thermoplastic IP 65 enclosures with transparent covers.</p> <p>PV Fuse should be 1.5 times of ISC rating 1000V; DC Isolator (1000V) to disconnect the PV String should be provided.</p>	<p>The cables from the array strings to the solar grid inverters shall be provided with DC fuse protection. Fuses shall have a voltage rating and current rating as required. The fuse shall have DIN rail mountable fuse holders and shall be housed in thermoplastic IP 65 enclosures with transparent covers. PV Fuse should be 1.5 times of ISC rating 1000V.</p>
<b>2. Lightning Protection</b>	<p style="text-align: center;">NIL</p>	<p>The SPV power plants shall be provided with lightning &amp; over voltage protection. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other subsystem components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors. Lightning protection should be provided as per IEC: 62305. The protection against induced high-voltages shall be provided by the use of Surge protection devices (SPDs) and suitable earthing such that induced transients find an alternate route to earth.</p>
<b>3. Sprinklers for Auto Cleaning of PV Modules</b>	<p>Solar Power Plant Must include Sprinkler System in order to have Auto Cleaning of Installed PV Modules</p> <p>This system consists of:</p> <ol style="list-style-type: none"> <li>1. Solar pump for pushing the water up to water treatment plant. The water pressure varies between 2.51 – 4 psi. At least 1 Sprinkler should be installed per 8 nos of PV Modules.</li> <li>2. Water treatment plant which ensures the hardness of water to be less than 100 ppm.</li> <li>3. After water treatment, the water is</li> </ol>	<p>Solar Power Plant Must include manual control Sprinkler System for Cleaning of Installed PV Modules.</p> <p>This system consists of:</p> <ol style="list-style-type: none"> <li>1. At least 1 Sprinkler should be installed per 8 nos of PV Modules. The water pressure varies between 2.51 – 4 psi.</li> <li>2. Water is pushed to the booster pump with sprinkler heads connected on top which sprinkles water on the solar panels. These sprinklers cover the solar panels in 180°.</li> </ol>

pushed to the booster pump with sprinkler heads connected on top which sprinkles water on the solar panels. These sprinklers cover the solar panels in 180°. The sprinkler interval can be automated by PLC/solenoid valves.

**4. Comprehensive Maintenance Contract**

Comprehensive Maintenance Contract (CMC) for a period of five (5) Years from the date of handing over of complete system which shall include preventive/routine maintenance and Breakdown/corrective maintenance ensuring servicing & replacement guarantee for parts & components of Solar Power Plant including Solar PV module.

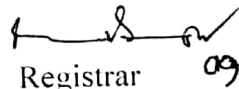
Comprehensive Maintenance Contract (CMC) for a period of five (5) Years from the date of handing over of complete system which shall include Breakdown corrective maintenance ensuring servicing & replacement guarantee for parts & components of Solar Power Plant including Solar PV module.

In order to allow prospective bidders reasonable time to take the said amendment into account in preparing their bids, the last date of submission of bids is hereby extended to the following extent:

1. Last Date of Submission of Bids: 13/07/2018 12:00 Hrs.
2. Quotation Opening Date : 13/07/2018 16:00 Hrs

Interested eligible bidder's may submit their bid's as per above revised schedule on the basis of amended specification.

Date: 09/06/2018

  
Registrar 09/06/18  
BUIE, Bankura  
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Institute of Engineering