**BOQ for 5 kW Off Grid Solar Power Plant at PHC Suman Nagar and PHC Aurangabad, Hardiwar (PPHF/RFQ/2024/017)**

Provide a quotation of the Supply, Installation, Testing & Commissioning of 5 kW Off Grid Solar Power Plant with 4.8kWH Lithium Ion Battery Pack.

Below are the details for the requested solar power plant:

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| --- | --- | --- | --- | --- | --- |
| [S.No](http://s.no/) | **Item** | **Description** | **Qty** | **UoM** | **Rate** |
| 1 | PV Module | PolyCrystalline 550 Wp | 9 | Nos |  |
| 2 | Off Grid Inverter | Suitable for 5 kW PV Modules | 1 | Nos |  |
| 3 | Battery Bank | Li Ion (48 V, 100 AH) | 4.8 | kWh |  |
| 4 | Remote Monitoring | Including 1 year cloud charges | 1 | Nos |  |
| 5 | Module Mounting Structure with Hardware, suitable for winds peeds of 150 kM/Hr | Hot Dip Galvanized / Pre Galvanized Type | 5 | kWp |  |
| 6 | DC Cable | 1C x 4 sq.mm Solar DC Cable | As per Required | Mtr |  |
| 7 | DC Cable | Flexible copper cable of adequate size | As per Required | Mtr |  |
| 8 | AC Cables | XLPE armoured copper cable of adequate size | As per Required | Mtr |  |
| 9 | Control Cable | - | As per Required | Mtr |  |
| 10 | Communication Cable(RS 485 & Cat 6 cable) | Between On-grid inverter, ACDB and Control System | As per Required | Mtr |  |
| 11 | ACDB Panels & DCDB Panel | CPRI Approved Electrical Panels | 1 | Set |  |
| 12 | Chemical Earthing (Cu bonded) | 17.2 mm dia, 2 mtr Rod with 25 kG chemical bag | 3 | Nos |  |
| 13 | Lightening Arrestor | Conventional Type | 1 | Nos |  |
| 14 | Accessories | MC4 Connectors, Lugs, Thimbles, Conduit Pipes, Earth Strip/wire, Civil Material etc. | 1 | Lot |  |

**Warranty & Repair: -**

Module Life -25 years from the date of supply

Module Output- 90% output for 10 years and 80% output

Off Grid Inverter -2 years