

## Part A General Scope

| Sl. No        | Name of Work   | S/I/O | Unit       | Rate/ Unit | Qty | Total | Remarks |
|---------------|--|-------|------------|------------|-----|-------|---------|
| 1             | <b>Services related to Supplies made by BHEL</b><br>Material Handling and Safe Keeping upto Installation and Handing Over to customer.<br>Complete details as per Technical spec.  |       |            |            |     |       |         |
| 2             | <b>Installation of BHEL supplied items :</b>   |       |            |            |     |       |         |
| (a)           | PV Modules   | I     | Nos        | 0          | 11  | 1     |         |
| (b)           | Inverter   | I     | Nos        | 3          | 1   | 3     |         |
| (c)           | ACDB (10-100KWp) - for Charger   | I     | Nos        | 2          | 1   | 2     |         |
| (d)           | DCDB (10-100KWp)   | I     | Nos        | 2          | 0   | 0     |         |
| 3             | <b>Structure Aluminum / Steel</b>  |       |            |            |     |       |         |
| 3 (a)         | Installation of structure for module mounting on rooftop/Tin shed  | I     | per Module | 0          | 11  | 2     |         |
| 4             | <b>Civil Pedestal</b>  |       |            |            |     |       |         |
| a             | Pedestal - PCC Blocks generally of Size 300*300*300 mm or more. Other support block sizes as per approved design may also be taken.  | S&I   | M3         | 5          | 2   | 10    |         |
| 6             | <b>Cable Laying</b>  |       |            |            |     |       |         |
| 6a            | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.   |       |            |            |     |       |         |
| 6a1           | 16 Sq mm to 35 sq.mm AC  | I     | RMT        | 0          | 20  | 0     |         |
| 6a2           | 6x4 Sq mm DC to 8x4 Sq mm DC   | I     | RMT        | 0          | 40  | 0     |         |
| 6c            | <b>Cable Laying rates in case excavation to be done</b><br>Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.    |       |            |            |     |       |         |
| 6c1           | 16 Sq mm to 35 sq.mm AC  | I     | RMT        | 0          | 30  | 2     |         |
| 7             | Supply & Installation of Conduits along with all accessories for Laying of Cable through it.<br>Supplying and fixing of following sizes of DWC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. |       |            |            |     |       |         |
| 7d            | 50 mm  | S&I   | RMT        | 0          | 20  | 1     |         |
| 8             | <b>Supply of Trey for Cable Laying</b>   |       |            |            |     |       |         |
| 8a            | 2.5-6 sq.mm  | S&I   | RMT        | 0          | 30  | 1     |         |
| 9             | <b>Supply and installation of Earthing Strip</b>   |       |            |            |     |       |         |
| 9a            | 25x5 mm GI Strip   | S&I   | RMT        | 0          | 30  | 2     |         |
| 10            | <b>Supply &amp; Installation of Lightening Arrestor</b>  | S&I   | 1No.       | 2          | 1   | 2     |         |
| 11            | <b>Supply of Earthing Material and Installation after making of Suitable pit as per standard.</b>  |       |            |            |     |       |         |
| 11a           | For chemical Earthing/ Conductor Earthing (Pipe)   | S&I   | 1No.       | 2          | 7   | 14    |         |
| 12            | <b>TESTING</b>   |       |            |            |     |       |         |
| 12a           | <b>Electrical Test</b>   |       |            |            |     |       |         |
| 12a1          | String Voltage Measurement   | O     | KW         | 0          | 3   | 0     |         |
| 12a2          | Earth Resistance Measurement as per specification  | O     | KW         | 0          | 3   | 0     |         |
| 12b           | <b>Final Installation Checks</b>   |       |            |            |     |       |         |
|               | LT Panel/ AC distribution Board Voltage & Current Checks   | O     | KW         | 0          | 3   | 0     |         |
| 14            | <b>Name Plates</b>   | S&I   | Nos.       | 0          | 2   | 0     |         |
| <b>Part B</b> | <b>Special Scope</b>   |       |            |            |     |       |         |
| 1             | <b>Installation of BHEL supplied items :</b>   |       |            |            |     |       |         |
| (a)           | Isolation Transformer  | I     | Nos        | 3          | 1   | 3     |         |



## HP PETROL PUMP (KAUSHALYA-SAMALKHA)-3KW

|                                  |   |     |      |    |               |                                   |  |
|----------------------------------|---|-----|------|----|---------------|-----------------------------------|--|
| 12                               | Grid Integration & start of Net Metering of Solar PV System by after getting all approvals, calibration through state department details attached as per scope for 10-100KW . | O   | 1No. | 5  | 1             | 5                                 |  |
| 13                               | Supply of Bidirectional Meter and Installation of the same.   |     |      |    |               |                                   |  |
| 13c                              | Whole Current LT Meter(0.5s Class)  | S&I | No   | 4  | 1             | 4                                 |  |
| 14                               | Supply and Installation of Solar Meter  |     |      |    |               |                                   |  |
| 14b                              | Whole Current LT Meter(0.5s Class)  | S&I | No   | 4  | 1             | 4                                 |  |
| 16                               | Fire fighting equipment   |     |      |    |               |                                   |  |
|                                  | Portable Fire extinguisher  | S&I | 1Set | 4  | 1             | 4                                 |  |
| <b>Part C</b>                    | <b>Items not covered in Part-A&amp;B</b>  |     |      |    |               |                                   |  |
|                                  | <b>Items Covered Under Part C</b>   |     |      |    |               |                                   |  |
| 1                                | AC CABLE (COPPER)<br>Inverter to ACDB   |     |      |    |               |                                   |  |
| 1 (a)                            | Size : 4Cx10 SQM  | S   | RMT  | 0  | 5             | 1                                 |  |
| 2                                | String Inverter   |     |      |    |               |                                   |  |
| 2 (a)                            | 5 KWp 3 Phase   | S   | No   | 23 | 1             | 23                                |  |
| 3                                | AC CABLE (ALUMINIUM)<br>From ACDB to distribution borad   |     |      |    |               |                                   |  |
| 3 (a)                            | SIZE-4Cx16 SQMM   | S   | RMT  | 0  | 20            | 1                                 |  |
| 4                                | DCDB  |     |      |    |               |                                   |  |
| 4 (a)                            | 5 KWp (suitable for 3KW only)   | S   | No   | 3  | 1             | 3                                 |  |
| 5                                | ACDB  |     |      |    |               |                                   |  |
| 5 (a)                            | 5 KWp (Suitable for 3 KW only)  | S   | No   | 3  | 1             | 3                                 |  |
| 6                                | Road Cutting  | O   | Mtr  | 0  | 5             | 1                                 |  |
| 7                                | Supply of DC cable (4 Sqmm CU DC cable)   | S   | Mtr  | 0  | 150           | 1                                 |  |
| 8                                | Support Structure for Module Mounting - Galvanised  | S   | Kg   | 0  | 230           | 6                                 |  |
|                                  | Total   |     |      |    |               | 100                               |  |
| <b>Offered Price Without GST</b> |   |     |      |    | <b>100.00</b> | <b>Bidder to Fill final price</b> |  |
| <b>GST @18%</b>                  |   |     |      |    | <b>18</b>     |                                   |  |
| <b>Total Cost</b>                |   |     |      |    | <b>118</b>    |                                   |  |

*Acme*