

पूर्वोत्तरसीमारेल
NORTHEAST FRONTIER RAILWAY



Office of the
Sr. Divisional Electrical Engineer(G)
N.F. Railway, Rangiya
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L/No. RNY/EL/T-29/2023-24/RT/895

Dated:-09/10/2024

To

Sub: - Approval of materials against RANGIYA DIVISION-ELECTRICAL /RT-RNY-EL-T-29-2023-24 /10783460105435 Dated:14/06/2024 of the work "At RNY Division - Provision of 490KWp Grid connected rooftop Solar Power plant at RNY station PP shed under SSE/ELECT/RNY including 5years AMC/CAMC."

The competent authority has approved the following material used in this contract as under: -

| SN | Description | Approved by Competent Authority |
|-----|---|---|
| 1 | Solar PV Module (Monocrystalline) | Sova Solar Limited |
| 2 | On Grid inverter Three phase,125KW | THEA Energy Pvt Ltd. |
| 3 | Monitoring system-Data logger for remote monitoring unit. | THEA Energy Pvt Ltd. |
| 4 | MMS Shed roof (wind speed -150KMPH), mini rail(150MM length) un anodised, height -80mm with END and MID clamp SS bolts with spring washer. | Aluminium |
| 5 | DC cable(1Cx4 sq mm 1500 v, Cu ,EBXLPO) | Polycab |
| 6 | LT panel(ACDB (2 In 1 out for 2 nos 125 Kw inverter) | Not approved as all required accessories are included in tender schedule. |
| 7 | LT Cable | KEI |
| (A) | Inverter 1 to ACDB-1, 3.5Cx150sq mm 1.1KV XLPE armoured cable | |
| (B) | Inverter 2 to ACDB-1, 3.5Cx95sq mm 1.1KV XLPE armoured cable | |
| (C) | Inverter 3 to ACDB-2, 3.5Cx150sq mm 1.1KV XLPE armoured cable | |
| (D) | Inverter 4 to ACDB-2, 3.5Cx95sq mm 1.1KV XLPE armoured cable | |
| 7 | DC & AC connectors and accessories. | |
| (A) | MC4 connectors(for string connection) | ELMEX |
| (B) | LUGs as connectors | Daga power |
| (C) | Other BOS and Tid Bt items | Reputed |
| 8 | Earthing and LA | |
| (A) | Earthing -chemical earthing 17.2 mm dia, 3 tr long copper bonded rod(240 micro with BFC-25kg chamber size- 300 sq. mm(brick work) with Cl cover kit | True power |
| (B) | ESE type lighting arresters with protection radius of 121 Mtrs. | True power |
| (C) | GI strip 25 x 3 mm (60-80 micron) with SS accessories , insulators etc. | True Power |

| | | |
|-----|---|---|
| (D) | Green earthing cable 2.5 mm x1c cu flexible (MMS, Solar module) with accessories | KEI |
| (E) | Green earthing cable 35 mm x1c cu flexible type for La down conductor with accessories | KEI |
| (F) | Green earthing cable 16 mm x1c cu flexible (Inverter & ACDB panel with accessories) | KEI |
| 9 | MCS | |
| (A) | 1 HP mono block pressure /booster pump with power supply & canopy (Including foundation work) with accessories. | Not approved as all required accessories are included in tender schedule. |
| (B) | CPVC pipe- Pipe 1" with accessories (T bent ,L bent, End cap) | Not approved as all required accessories are included in tender schedule. |
| (C) | PVC ball Valve | Not approved as all required accessories are included in tender schedule. |
| (D) | MCS accessories with clamp & fixing | Not approved as all required accessories are included in tender schedule. |
| 10 | Safety | |
| (A) | Supply of fire extinguisher-ABC type(2 Nos),CO2(1 nos), 4 kg with fire bucket(2 nos)and stand | Not approved as all required accessories are included in tender schedule. |
| (B) | Display Board(1 ftx1ft,Danger Board,Project Information Boards (3ftx2ft) | Not approved as all required accessories are included in tender schedule. |
| 11 | Canopy & Foundation work(wall mounted with canopy stand, Grill cover, lock & key | Not approved as all required accessories are included in tender schedule. |
| 12 | Accessories(All accessories which is not mentioned above but required for successful installation & commissioning of Project handover is part of this project(Like :PU Foam, silicon sealant, Red oxide paint, yellow ,black, Blue paint, GI spray etc. | Not approved as all required accessories are included in tender schedule. |

This is for your information & necessary action, please.

09.10.24,
 Sr. Divisional Electrical Engineer/G
 N.F. Railway/Rangiyar
 बरिष्ठ विद्युत विभागा रंजिया/जी
 Sr. Divisional Electrical Engineer/G
 प्लॉ री० रेल. रंजिया
 N.F. Railway, Rangiyar

Copy to: -

1. SSE/IC/Elect/RNY: -For information & necessary action.