

**EMPANELMENT OF VENDORS FOR DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING INCLUDING WARRANTY, COMPREHENSIVE OPERATION & MAINTENANCE OF GRID-CONNECTED ROOFTOP SOLAR PLANT OF VARIOUS CAPACITIES UNDER THE PHASE-II OF GRID CONNECTED ROOFTOP SOLAR SCHEME OF MNRE IN THE STATE OF ODISHA**

**BILL OF MATERIALS**

Sr. No	Item Name	Item Description	List of Brands/Specification
1	Solar PV module:	325-340 Wp, Poly crystalline Silicon	Vikram Solar, Renewsys, Waree, shanti solar or as per ALMM list
2	Module mounting structure	i. Structure Material- hot dip galvanized Iron/Aluminium/hot dip galvanized MS ii. Wind Speed resistance- min 200 KM/hr iii. Structure Type- Ballast	As per specification defined by MNRE (Ministry of New and Renewable Energy)
3	Generation Meter		Secure/L&T/Genus
4	Inverter/PCU	i. Type- MPPT ii. Inverter Overloading- 20 %	Havells/K-star/Fronious/ Powerone/radius/growatt/sungrow/polycab
5	Isolation switch		As per specification defined by MNRE (Ministry of New and Renewable Energy)
6	AC Cables		Polycab/KEI/RR/Finolex
7	DC Cables		Polycab/KEI/RR/Wacab/Microtek/sichem
8	DC Distribution Box	Material- Polycarbonate (IP65)	L&T/CITEL/Havells
9	AC Distribution Box	Material- Polycarbonate (IP65)	As per specification defined by MNRE (Ministry of New and Renewable Energy)
10	MC4 Connector		As per specification defined by MNRE (Ministry of New and Renewable Energy)
11	Earthing	DC side Earthing less than 5 ohms	As per specification defined by MNRE (Ministry of New and Renewable Energy)
12	Earthing	AC side Earthing less than 5 ohms	As per specification defined by MNRE (Ministry of New and Renewable Energy)
13	Earthing	LA earthing less than 5 ohms	As per specification defined by MNRE (Ministry of New and Renewable Energy)
14	SPD	DC Side -1000V AC side-600V	As per specification defined by MNRE (Ministry of New and Renewable Energy)
15	Lighting Arrestor	Minimum 1Mtr long	As per specification defined by MNRE (Ministry of New and Renewable Energy)
16	Fire Extinguser	As Applicable	As per specification defined by MNRE (Ministry of New and Renewable Energy)
17	Sand bucket	As Applicable	As per specification defined by MNRE (Ministry of New and Renewable Energy)

**\*Note**

1. Consumer can ask for any of the above-mentioned brands.
2. Any deviation from the list of makes (as per consumers request), price variation shall be borne by consumer itself.