

SERVICES PROVIDED

MECHANICAL

- Site layout
- MMS design
- BOM for Mechanical BOP
- As built drawings
- STAAD Analysis Report

DESIGN & SIMULATION REPORTS

- PVSyst Report
- Helioscope Report
- Homer Report
- Sketchup
- AutoCAD
- Solar GIS

ELECTRICAL

- SLD (Single Line Drawings)
- Selection of materials
- Cable Layouts
- BOM for Electrical BOP
- As Built Drawings
- Earthing Layout

PROJECT COORDINATION

- Scope Matrix
- Gantt Chart
- Onsite coordination
- Selection of suppliers and EPC
- Drawings required for approvals
- DPR / Feasibility Report

MECHANICAL DWGS:

- PV plant layout
- MMS mounting details
- MMS mounting part dwgs
- Safety line
- Grating with perforated cable tray
- Inverter, ACDB, DCDB mounting details
- Ladder design for roof access

CIVIL DWGS:

- Solar panel mounting structure grouting
- Inverter, DCDB, ACDB mounting structure grouting
- Earthing

ELECTRICAL DWGS:

- Single line diagram
- Detailed Single Line Diagram
- Stringing & DC cable routing
- AC cable routing
- Earthing & LA Layout
- Communication cable routing

SCOPE OF WORK FOR ROOFTOP SOLAR PROJECTS



GANAPATI PRODUCTS

Address : Sunil Vila, 39B, Ibrahimpur Road, Jadavpur, Kolkata 700032

9717088074

ganapatiprducts@gmail.com
support@ganapatiprducts.com

9717088074 ; 890255652

http://ganapatiprducts.com

STAGE 01

LAYOUT & GENERAL ARRANGEMENT DWGS: 01

- Overall Plant Layout
- Internal road layout
- Cable Trench Layout (indicating Details of cable route for Power & Communication Cables)

CIVIL RELATED DRAWINGS & DOCUMENTS: 01

- Detail Of Solar Field Entry Gate
- Details of RCC Foundation, Plan, Section and Side view details for MCR.
- RCC Foundations Construction Design Document

CIVIL RELATED DRAWINGS & DOCUMENTS: 04

- Lightning Arrestor Foundation and Design
- Plumbing and Sanitary Drawing

LAYOUT & GENERAL ARRANGEMENT DWGS: 02

- Layout of Inverter & Transformer block (Inverter Stand)
- Layout for Balance of Plant systems (Weather Stations, Earthing, Lightning protection, surge protection etc.)
- Bill of Material for Electrical Components
- Bill of Material for Civil Components

CIVIL RELATED DRAWINGS & DOCUMENTS: 02

- Details of RCC Foundation, Plan, Section and Side view details for Inverter room
- Design Document for bolts, base plates, etc used in structure, foundation of Inverter and Control room
- Outdoor Transformer Foundation
- Control Room Building Foundation

CIVIL RELATED DRAWINGS & DOCUMENTS: 03

- Cable Trench Cross Section for Inverter, and Control
- Mounting Structure Drawing
- Main Control Room & Plant Switchyard GA Details
- Bill of material for civil items
- Earthing Pit Design.

STAGE 02

ELECTRICAL DWGS: 01

- Principle SLD for DC system
- DC Cable Schedule
- Module Technical detail
- Inverter Technical detail
- Principle SLD for AC system
- Main AC Distribution Board SLD

ELECTRICAL DWGS: 03

- Lightning protection calculation
- Inverter Room Equipment Layout
- Main Control Room Equipment Layout
- Inverter and Control room earthing calculation
- Typical Cable tray details

GENERATION REPORTS:

- PVSyst
- Solar GIS
- BOM & Selection of Materials
- DPR / Feasibility Report

STAGE 03

ELECTRICAL DWGS: 02

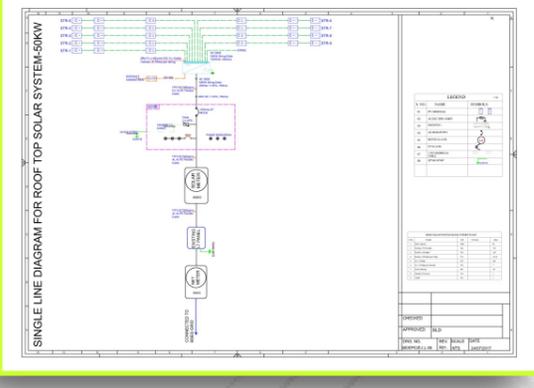
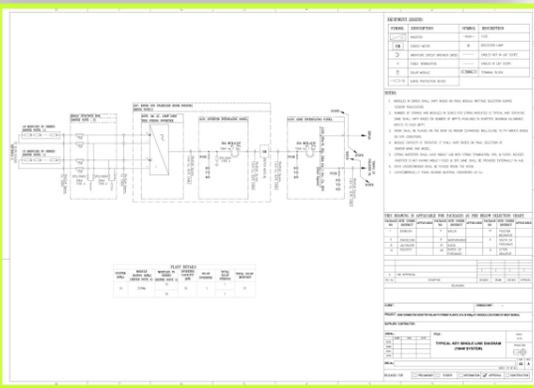
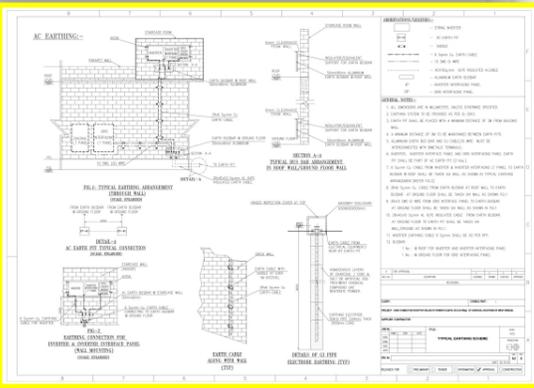
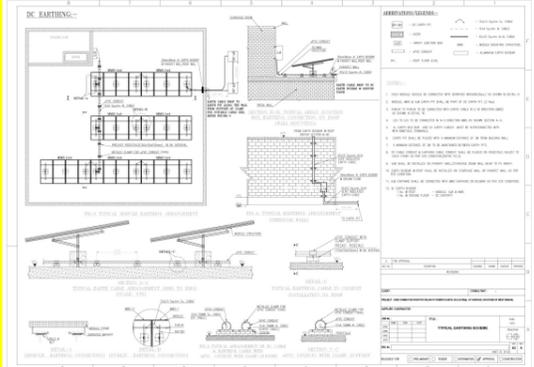
- HT & LT Cable Sizing Calculations and cable schedule (AC)
- Transmission Line and Bus Bar Conductor sizing
- Bus Rating Calculation & Earthing Calculations for inverter and control room

ELECTRICAL DWGS: 04

- HT and LT panel drawing
- AC Cable Schedule, Outdoor/Indoor breaker drawing, Battery and UPS design calculation
- Battery and UPS datasheets, Auxiliary power SLD, DCDB SLD, Equipment Earthing
- Communication Cable schedule

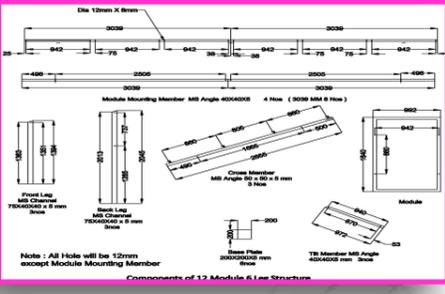
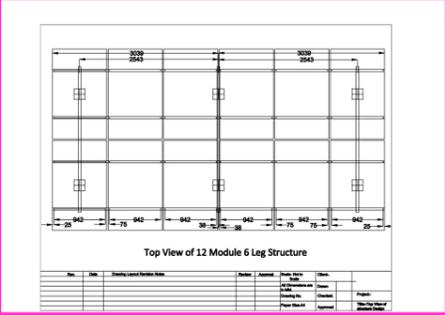
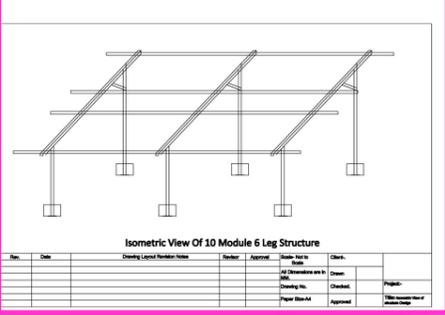
STAGE 04

SCOPE OF WORK FOR MW SOLAR PROJECTS

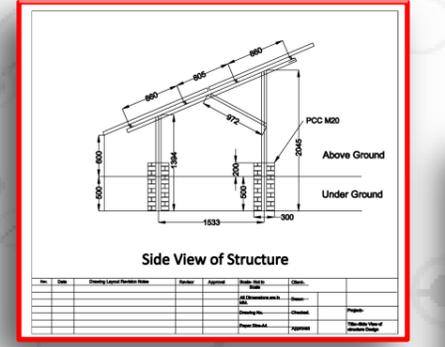


EARTHING SCHEME—10KWP

SINGLE LINE DIAGRAM



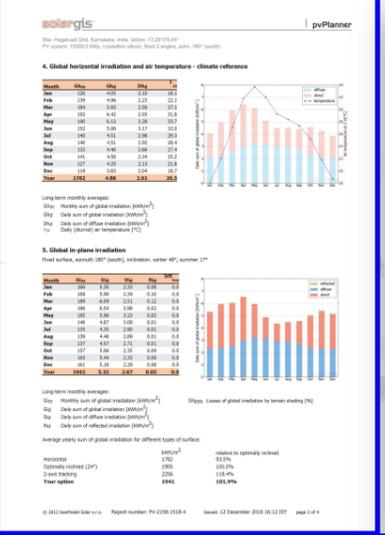
MMS - SECTION



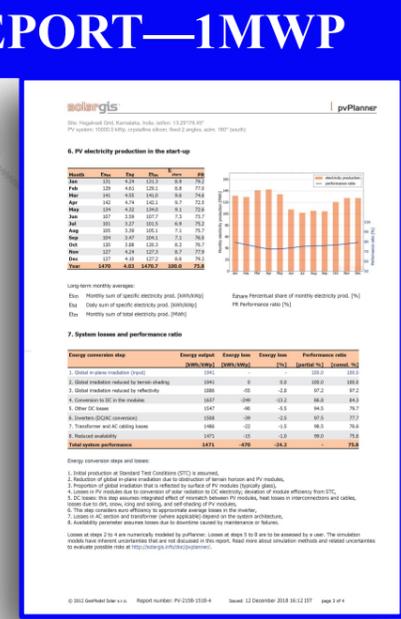
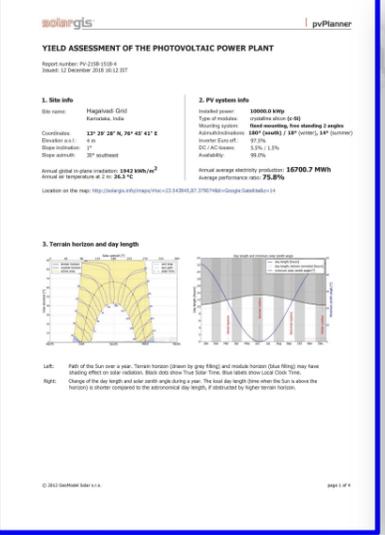
MMS - BOM

Structure Weight Final One						
Part Name	Specification	Quantity in one set	Length (mm)	Length (meter)	Weight per mtr	Total Weight (KG)
Module Mounting Member (Angle)	40X40X5mm	8	3039	3.039	3.04	73.90848
Cross Member (Angle)	50X50X5mm	3	2655	2.655	3.79	30.18735
Front Leg (C Channel)	75X40X40X5mm	3	1394	1.394	7.126	29.800932
Back Leg (C Channel)	75X40X40X5mm	3	2045	2.045	7.126	43.71801
Tilt member	40X40X5mm	3	972	0.972	3.04	8.86464
Clit	40X40X5mm	4	200	0.2	3.004	2.4032
Clit	40X40X5mm	8	100	0.1	4.004	3.2032
Base Plate	200X200X5mm	12		0	39.3	18.864
					Total Weight	210.949812 KG

MMS - STANDRAD LAYOUT



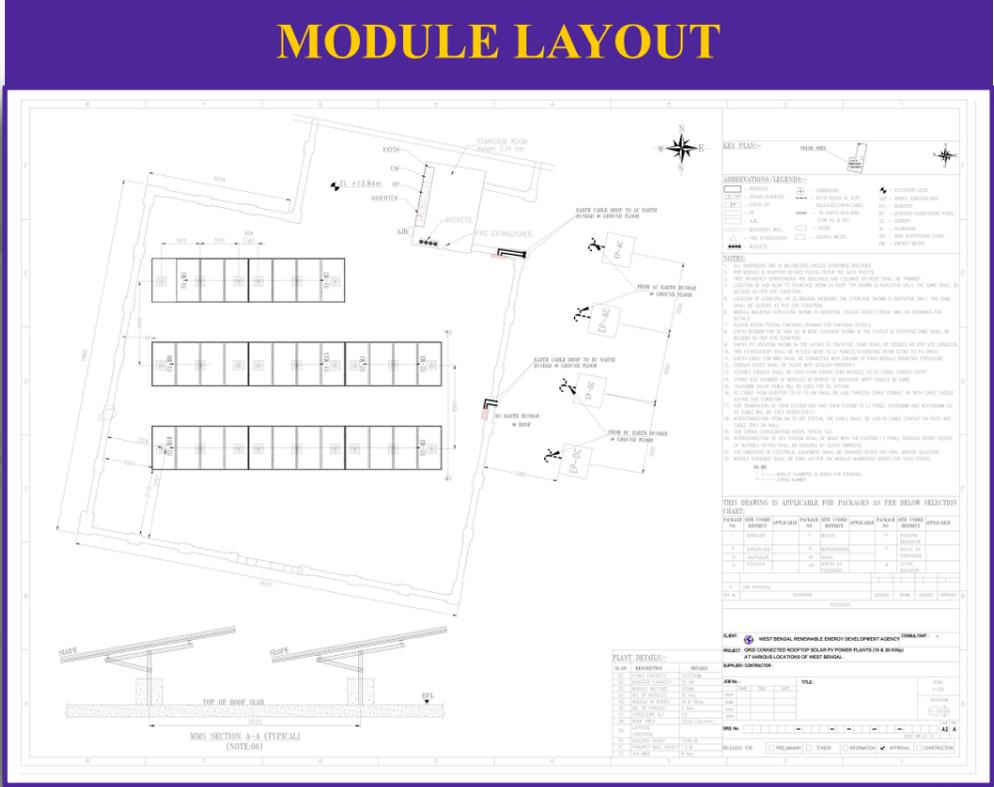
SOLAR GIS REPORT—1MWP



GANAPATI PRODUCTS

Address : Sunil Vila, 39B,Ibrahimpur Road, Jadavpur, Kolkata 700032

9717088074
 ganapatiprducts@gmail.com
 support@ganapatiprducts.com
 9717088074 ; 890255652
 http://ganapatiprducts.com



AC & DC CABLING

