# PSS2 & MAIN CONTROL ROOM2(MCR)

PLAN

PLAN
(2x21=42 PANELS)

**CABLE CROSSING-1**
807828.3018
1822689.9881
807845.3333
1822679.7445

**CABLE CROSSING-2**
807723.1711
1822425.9726

807704.4867
1822383.9173

**CABLE CROSSING-3**
807780.4522
1821856.9646
807786.8264
1821849.4369

**CABLE CROSSING-4**
808011.1443
1821460.2640

807990.5838
1821431.9728

**CABLE CROSSING-5**
808190.5396
1820648.2892
808204.8420
1820628.0140

## LEGEND:-

| SYMBOL | DESCRIPTION |
|---|---|
| | MMS(2x21) STRUCTURE |
| | 4m WIDE WBM ROAD |
| | 4m WIDE ASPHALT ROAD |
| | COMPOUND WALL / FENCING |
| | AC TRENCH |
| | DC TRENCH |
| | DRAIN |
| | STRING COMBINER BOX(SCB) |
| | INVERTER CONTROL ROOM(ICR) |
| | MAIN CONTROL ROOM2(MCR) |

## TECHNOLOGY:-

| | | |
|---|---|---|
| Inverter | 1MW ABB Central Inverter | -54 no's |
| Inverter Transformer | 2.0MVA, 33/2x0.38kV,3Wdg | - 27 no's |
| MV Switchboard | 33kV AIS Switchgear Panel | |
| Evacuation S/S | 220kV, AIS Switchyard | |

## PLANT DETAILS:-

| | |
|---|---|
| GEO POSITION | N - 16°28'11.10" |
| | E - 77°54'59.67" |
| SITE AREA | 242 ACRES |
| PV AREA | 189 ACRES |
| INTER ROW | 2.7 |
| PITCH | 6.5 |
| MODULE ORIENTATION | SOUTH |
| TILT ANGLE | 15 DEG |
| DC CAPACITY | 64.77 MWp |
| AC CAPACITY | 54 MWac |
| NPR(DC/AC) | 1.2 |
| NO.OF MODULES | 42,966(Talesun 310Wp) |
| | 71,022(Talesun 315Wp) |
| | 53,424(JA solar 315Wp) |
| | 38,304(JA solar 320Wp) |
| PV CONNECTORS | 9796 - PLUG |
| | 9796 - SOCKET |
| PV BRANCH CONNECTORS | 4898 - PLUG |
| | 4898 - SOCKET |
| NO.OF TABLES | 4898 |
| TABLE TYPE | 2x21, (PORTRAIT) |
| NO OF INV PER STN. | 4 NOS. |
| NO OF TRANSFORMER PER STATION | 2 NOS. |

## TYPICAL STRING LOOPING

STRING -1
STRING -2

Y-connector
6 Sq.mm Cu. Cable
[To SCB]
MC-4connector
15A
15A inline fuse
MC-4connector

SCB

## TYP. INVERTER CONTROL ROOM(ICR)

MODULE DISTRIBUTION DETAILS

NOTE: SCB NO'S WITHIN THE INVERTER ARE REASSIGNED IN THE OVERALL ARRAY LAYOUT TO SUIT THE PLANT TOPOGRAPHY CONDITIONS. EXECUTION TEAM HAS TO REFER THE ARRAY LAYOUT FOR TABLE DISTRIBUTION(SEPARATE COLOR INDICATION) AMONG THE SCB'S.

| | START | | END | |
|---|---|---|---|---|
| | X COORDINATES | Y COORDINATES | X COORDINATES | Y COORDINATES |
| CABLE CROSSING-1 | 807828.3018 | 1822689.988 | 807845.3333 | 1822679.745 |
| CABLE CROSSING-2 | 807723.1711 | 1822425.975 | 807704.4867 | 1822383.917 |
| CABLE CROSSING-3 | 807780.4522 | 1821856.965 | 807786.8264 | 1821849.437 |
| CABLE CROSSING-4 | 808011.1443 | 1821460.264 | 807990.5838 | 1821431.973 |
| CABLE CROSSING-5 | 808190.5396 | 1820648.289 | 808204.842 | 1820628.014 |

PLAN

CHECK BOX

| AS-BUILT | FOR APPROVAL | INFORMATION ONLY | FOR CONSTRUCTION |
|---|---|---|---|
| ✓ | | | |

| R0 | 26-09-17 | ASBUILT | BG | NK |
|---|---|---|---|---|
| No. | DATE | REMARKS | DRN | CKED |
| | | REVISIONS | | |

PROJECT TITLE:
100MW SOLAR POWER PLANT
AT VELTOOR, TELANGANA

CLIENT:
TRANSFORM SUN ENERGY PRIVATE LIMITED

OWNERS CONSULTANT:
TATA
TATA CONSULTING ENGINEERS LIMITED
BENGALURU

EPC CONTRACTOR:
STERLING & WILSON

DRAWING TITLE:
OVERALL ARRAY LAYOUT-PLOT2/MUTHYALAMPALLI

| DRAWING NO: | | SCALE | NTS |
|---|---|---|---|
| SWLB-SP-TS-100MW-E-DWG-OAL-101C | | | |
| DRAWN | BG | SHEET NO | 1 OF 1 |
| CHECKED | NK | PAPER SIZE | A1 |
| APPROVED | SS | | |
| DATE | 26-09-17 | REV NO. | R0 |