

**RECORD OF DAILY O&M ACTIVITIES**  
**50 MWp SOLAR PV POWER PROJECT, M/S NTPC-MANDSAUR.**

Plant Owner: **M/S NTPC**  
O&M CONTRACTOR: **M/s BHEL,Hyderabad**  
O&M Sub Contractor:

Date:-  
Time:-

| S.No        | PARTICULARS @ CMCS  | OBSERVATION AND ACTIVITY CARRIED OUT. |          |          |          |                        |          |          |          |                        |          |          |          | ACTIVITY CARRIED OUT                         |          |          |          |                        |          |          |          |
|-------------|---|---------------------------------------|----------|----------|----------|------------------------|----------|----------|----------|------------------------|----------|----------|----------|--|----------|----------|----------|------------------------|----------|----------|----------|
| A1          | WMS-Check for all WMS parameters(Irradiance/Wind speed/ Wind direction/ Temperature sensors working) getting recorded in SCADA in SCADA PC. |                                       |          |          |          |                        |          |          |          |                        |          |          |          | Cleaning of SCADA room                       |          |          |          |                        |          |          |          |
| A2          | WMS-Visual inspection of Pyranometer and Cleaning of Pyranometer dome(Record Time of cleaning)  |                                       |          |          |          |                        |          |          |          |                        |          |          |          | Water wash cleaning of Wash rooms.           |          |          |          |                        |          |          |          |
| A3          | CCTV-Check for CCTV PC is on and all the camera status displaying in the PC, (if no) indicate finding and corrective action taken.          |                                       |          |          |          |                        |          |          |          |                        |          |          |          | Claening of Switchgear Room                  |          |          |          |                        |          |          |          |
| A4          | SCADA-Check for any SCADA O/Ps <b>NOT APPEARING</b> in SCADA PC Screen.Record the date of Occurance & Corective action Taken (if any).      |                                       |          |          |          |                        |          |          |          |                        |          |          |          | Watch and ward of 10 IR rooms ( Total plant) |          |          |          |                        |          |          |          |
| <b>S.No</b> | <b>PARTICULARS</b>  | <b>INVERTER ROOM-1</b>                |          |          |          | <b>INVERTER ROOM-2</b> |          |          |          | <b>INVERTER ROOM-3</b> |          |          |          | <b>INVERTER ROOM-4</b>                       |          |          |          | <b>INVERTER ROOM-5</b> |          |          |          |
| 1.B1        | <b>TRANSFORMERS</b>   | 401-TR1                               |          | 401-TR2  |          | 402-TR1                |          | 402-TR2  |          | 403-TR1                |          | 403-TR2  |          | 404-TR1                                      |          | 404-TR2  |          | 405-TR1                |          | 405-TR2  |          |
| 1.B2        | HV WDG Temp./OTI VALUE °C   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.B3        | LV-1/LV-2 WDG Temp. VALUE °C  |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.B4        | Oil Level In Conservator Tank   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.B5        | Any ab-normal sound from Transformer  |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.C         | <b>PCUs</b>   | <b>A</b>                              | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>               | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>               | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>                                     | <b>B</b> | <b>C</b> | <b>D</b> |                        | <b>B</b> | <b>C</b> | <b>D</b> |
| 1.C1        | Check the smooth operation of PCU i.e from sleep to wake up and wake up to sleep (Operation hours to be noted)                              |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.C2        | Any Alarm/Fault from Inverter   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.C3        | Specific Remarks (if any)   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.D         | <b>SMBs</b> (Connected to PCUs)   | <b>A</b>                              | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>               | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>               | <b>B</b> | <b>C</b> | <b>D</b> | <b>A</b>                                     | <b>B</b> | <b>C</b> | <b>D</b> |                        | <b>B</b> | <b>C</b> | <b>D</b> |
| 1.D1        | Observe the current loss in any String in SCADA System(if any).If yes, check for fuse failure and bypass Diode failure etc.                 |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.D2        | Specific Remarks (if any) /Corrective action taken?   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1E          | <b>UPS &amp; BATTERY CHARGER</b>  |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.E1        | Check the display unit alarms & indication on panel and clear in case of any fault. Check the exhaust fans,                                 |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.E2        | Check Battery Bank Voltage  |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.F1        | Module washing Status   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.G1        | Inverter room cleaning Status   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
| 1.H1        | Miscellaneous(if any)   |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          |                        |          |          |          |
|             | Technician  |                                       |          |          |          |                        |          |          |          |                        |          |          |          |  |          |          |          | Engineer               |          |          |          |

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|---|---|-----------------|---|---------|---|-----------------|---|---------|---|-----------------|---|---------|---|-----------------|---|---------|---|------------------|---|---------|---|
| S.No  | PARTICULARS   | INVERTER ROOM-6 |   |         |   | INVERTER ROOM-7 |   |         |   | INVERTER ROOM-8 |   |         |   | INVERTER ROOM-9 |   |         |   | INVERTER ROOM-10 |   |         |   |
| 2.B1  | TRANSFORMERS  | 406-TR1         |   | 406-TR2 |   | 407-TR1         |   | 407-TR2 |   | 408-TR1         |   | 408-TR2 |   | 409-TR1         |   | 409-TR2 |   | 410-TR2          |   | 410-TR2 |   |
| 2.B2  | HV WDG Temp./OTI VALUE °C   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.B3  | LV-1/LV-2 WDG Temp. VALUE °C  |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.B4  | Oil Level In Conservator Tank   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.B5  | Any ab-normal sound from Transformer  |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.C   | PCUs  | A               | B | C       | D | A               | B | C       | D | A               | B | C       | D | A               | B | C       | D | A                | B | C       | D |
| 2.C1  | Check the smooth operation of PCU i.e from sleep to wake up and wake up to sleep (Operation hours to be noted)              |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.C2  | Any Alarm/Fault from Inverter   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.C3  | Specific Remarks (if any)   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.D   | SMBs (Connected to PCUs)  | A               | B | C       | D | A               | B | C       | D | A               | B | C       | D | A               | B | C       | D | A                | B | C       | D |
| 2.D1  | Observe the current loss in any String in SCADA System(if any).If yes, check for fuse failure and bypass Diode failure etc. |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.D2  | Specific Remarks (if any) /Corrective action taken?   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
|   | UPS & BATTERY CHARGER   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.E1  | Check the display unit for alarms & indication on panel and clear in case of any fault. Check the exhaust fans,             |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.E2  | Check Battery Bank Voltage  |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.F1  | Module washing Status   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.G1  | Inverter room cleaning Status   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| 2.H1  | Miscellaneous(if any)   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |
| Technician  |   | Engineer        |   |         |   |                 |   |         |   |                 |   |         |   |                 |   |         |   |                  |   |         |   |

Note : Penelity will be deducted for non permormace of any activity as per price schedule