

**TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LTD.**  
**(Technical Branch)**

O/o. Chief Engineer/Commercial.  
Chennai – 2.

**Memo.No.CE/Comml/SE/EE/R&C/AEE1/F.SolarNM/D.051/14,**  
**dt.18 .03.2014**

Sub: Elecy. – Tamil Nadu Solar Energy Policy-2012 – Order on LT connectivity and Net-metering issued by the TNERC – additional working instruction for implementation of LT connectivity/Net-Metering issued - Reg.

- Ref: 1. Tamil Nadu Solar Energy Policy-2012.  
2. G.O (Ms) No. 121/Energy (C2)/dated 19-10-2012 Government of Tamil Nadu.  
3. Hon'ble TNERC's Order No.3 of 2013 dt.13.11.2013.  
4. CE/NCES U.O.No.CE/NCES/EE/SCB/AEE3/F.LT Connectivity – TNERC order/D.858/2013, dt.21.11.2013.  
5.Memo.No.CE/Comml/EE/R&C/AEE1/F.SolarNM/D.023/14, dt.17.02.2014

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In continuation of the memo under reference (5) cited above, the additional working instructions are herewith issued for implementation.

a. Necessary steps should be taken to enter the database for all the Distribution Transformers in a phased manner. However, the database for the respective Distribution Transformer feeding the Service connection in which the installation of Solar PV is proposed should be entered immediately so as to enable approval for LT connectivity and Net Metering.

b. In respect of the charges to be collected, the charges such as changing of meter board/meter, installation testing, meter caution deposit ...etc., whatever applicable may be collected as communicated in the head of Miscellaneous Charges ordered on Non-tariff related Miscellaneous Charges vide petition No. MP 41 of 2003 (Effective from 01.10.2004).

(BY ORDER OF DIRECTOR / DISTRIBUTION).

Superintending Engineer/Commercial.  
For CHIEF ENGINEER/COMMERCIAL.

To  
All Chief Engineers/Distribution Region.  
All Superintending Engineers/EDC.

Copy submitted to Director/Distribution.  
Copy submitted to Director/Generation.  
Copy submitted to Director/Operation.  
Copy submitted to Director/Transmission & Projects.  
Copy submitted to Director/Finance/TANTRANSCO & TANGEDCO.  
Copy to the Chief Engineer/ R&D, Planning and Operation.

Copy to the Chief Engineer/NCES.

Copy to the Chief Engineer/Material Management.

Copy to the Chief Engineer/IT

Copy to the Chief Financial Controller / Revenue / TANGEDCO.

Copy to the Financial Controller/Revenue/TANGEDCO.

**TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LTD.**  
**(Technical Branch)**

O/o. Chief Engineer/Commercial.  
Chennai-2

**Memo.No.CE/Comml/SE/EE/R&C/AEE1/F.SolarNM/D.052/14,**

**dt.18.03.2014.**

Sub: Eolecy. – Tamil Nadu Solar Energy Policy-2012 – Order on LT connectivity and Net-metering issued by the TNERC – additional working instruction for implementation of LT connectivity/Net-Metering issued - Reg.

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  6. Memo.No.CE/Comml/SE/EE/R&C/AEE1/F.SolarNM/D. /14, dt. .03.2014

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In continuation of the memo under reference (5) & (6) cited above, in order to simplify the procedure of processing the applications, the additional working instructions are herewith issued for implementation.

1. The forms of Annexure III, IV and V communicated vide ref (5), may be treated as cancelled and the new formats enclosed herewith have to be followed.

2. In case of LT connectivity in HT services, the nodal authority for receipt of application/Sanction is the concerned Superintending Engineer/EDC since, the HT services applications are being processed by the concerned Superintending Engineers.

3. The working instruction of Para 11 which read as "For Solar PV Systems below 10 KW the AEE/O&M, TANGEDCO shall be the inspecting authority. For Solar PV System of 10 KW and above, the electrical inspectorate of Tamil Nadu Government shall be inspection authority" may be read as "**For Solar PV Systems upto 10 KW the AEE/O&M, TANGEDCO shall be the inspecting authority.**

**For Solar PV System of above 10 KW, the Electrical Inspectorate of Tamil Nadu Government shall be the inspection authority”**

(BY ORDER OF DIRECTOR / DISTRIBUTION).

Superintending Engineer/Commercial  
For CHIEF ENGINEER/COMMERCIAL.

Encl: Annexure (Revised) III, IV & V  
To  
All Chief Engineers/Distribution Region.  
All Superintending Engineers/EDC.

Copy submitted to Director/Distribution.  
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Copy to the Financial Controller/Revenue/TANGEDCO.

**Annexure – III (Revised)**  
**Format for Solar Net Metering Technical Feasibility Report**

**A. Service Connection Details**

1. Name of the Consumer:
2. Address:
3. Telephone No/Mobile No:
4. Email address:
5. Service connection number:
6. Category and tariff:
7. Sanctioned Load in kW (A):
8. Existing service connection meter
  - a) Single / three phase:
  - b) Capacity in ampere:
  - c) Direct reading or current-transformer operated:
9. Distribution:
10. Section:
11. Pole No:

**B. Distribution Transformer Details**

1. Name of the distribution transformer (DTR):
2. Name of the HT feeder:
3. DTR capacity in KVA (B):
4. Voltage ratio of the DTR:
5. Solar PV capacity already connected to this DTR in KW (C):
6. Proposed Solar PV capacity in KW (D):
7. Total Solar PV capacity including the proposed new capacity: ( $E = C + D$ ):

*Note:* The proposed solar PV capacity addition is technically feasible if

- a) the total solar PV capacity (E) in kW is not more than 30% of the DTR capacity in KVA (B) [ $E \leq B \times 30\%$ ] and
- b) the proposed solar PV capacity in kW (D) does not exceed the sanctioned load of the service connection in kW (A) [ $D \leq A$ ].

**C. FEEDER DETAILS (Applicable for the HT consumers applied for LT connectivity).**

1. Name of the feeder
2. Name of SS from which the feeder is  
Emanating with voltage ratio
3. Type and size of the conductor
4. Current carrying capacity of the feeder

5. Maximum load reached on the feeder in Amps & KVA
6. Total connected DTR capacity on this 11KV feeder(KVA)
7. SPV generators connected on this feeder, if any, and their capacity in KW.

Conclusion: Whether it is technically feasible to connect the proposed solar PV system to the service connection (Yes or No):

**Executive Engineer**

O&M

(BY ORDER OF DIRECTOR / DISTRIBUTION).

Superintending Engineer/Commercial  
For CHIEF ENGINEER/COMMERCIAL.

**Annexure – IV (Revised)**  
**Format for Feasibility intimation Letter to Consumer**

From  
The Executive Engineer,  
O & M,

To  
(Consumer name and address).

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Lr.No.EE/O&M/ /TANGEDCO/F. Solar net-metering/Doc No. /D.No. /14, dt.

Dear Sir, Madam,

Sub: Solar Net-metering – Technical Feasibility Intimation

Ref: Your application No.\_\_\_\_\_, dt.\_\_\_\_\_

The application for solar net-metering of your proposed grid-connected solar PV system of \_\_\_\_\_KW proposed at Service Connection number\_\_\_\_\_is technically feasible.

You are requested to proceed with the installation of the solar PV system and inform us as soon as the system is ready for inspection.

This Technical Feasibility Intimation is valid for a period of six months and we need to receive your installation readiness communication within that period. You may intimate your readiness to us by letter, in person or by email.

Executive Engineer (O&M)

Email address:

BY ORDER OF DIRECTOR / DISTRIBUTION).

Superintending Engineer/Commercial  
For CHIEF

ENGINEER/COMMERCIAL.

## **Annexure – V (Revised) Inspection Report Format**

### **A. Service Connection Details**

1. Name of the Consumer:
2. Address:
3. Telephone No/Mobile No:
4. Email address:
5. Service connection number:
6. Category and tariff:
7. Old service connection meter closing meter reading:
8. Distribution/Transformer:
9. Section:
10. Pole No:

### **B. New Bidirectional Service Connection Meter**

1. Meter make:
2. Serial number:
3. Capacity:
4. Meter constant (for CT-operated meters):
5. Import register opening reading (kWh):
6. Export register opening reading (kWh):

### **C. Solar Generation Meter (if GBI is claimed)**

1. Meter make:
2. Serial number:
3. Capacity:
4. Meter constant (for CT-operated meters):
5. Opening reading (kWh):

### **D. Solar Generation Check Meter (if GBI is claimed and solar system capacity exceeds 20 kW)**

1. Meter make:
2. Serial number:
3. Capacity:
4. Meter constant (for CT operated meters):
5. Opening reading (kWh):

### **E. Solar Grid Inverter**

1. Make:
2. Serial number:
3. Capacity:
4. Input DC voltage range:



5. Output AC voltage range:
6. anti-islanding protection check - if the grid fails the status of the contactor (on or off)

**F. Solar PV modules**

Total capacity of solar modules (kW):

**Executive Engineer**

O&M, -----

(BY ORDER OF DIRECTOR / DISTRIBUTION).

Superintending Engineer/Commercial  
For CHIEF ENGINEER/COMMERCIAL.