

## **Guidelines for Implementation of Net Metering/Group Net Metering/Gross Metering/Virtual Net Metering**

### **I. Introduction:**

These guidelines are issued as per Regulation for connectivity with the Grid and sale of electricity from the Roof- top Solar Photovoltaic System, viz., Telangana Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive Systems) Regulation, 2025 Regulation No. 1 of 2025 which came into force from the date of its notification in the Telangana Official Gazette i.e., 15.11.2025.

### **II. Eligibility of consumer and project capacity:**

- a. Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering, as the case may be, shall be permitted by the Distribution Licensee on a nondiscriminatory and distribution transformer-wise 'first come, first serve' basis to the eligible consumers who intend to install a Rooftop Solar PV system connected to the Network of such Distribution Licensee: Provided that the inter-connection of such system with the network of the Distribution Licensee shall be undertaken in accordance with the standards and norms specified in the Central Electricity Authority (CEA) (Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013, the CEA (Measures relating to Safety and Electric Supply) Regulations, 2023, and the (State Electricity Grid Code) Regulations No.4 of 2018 as amended from time to time .
- b. The eligible consumers of all categories except temporary supply category may install the Rooftop Solar PV System under the Net Metering Arrangement up to 500 (Five Hundred) KWp capacity. Provided that existing prosumers who are already availing the facility of Net Metering and have installed capacity above 500 (Five Hundred) KWp shall continue to get the benefit of net metering facility under these Regulations.
- c. The LT-I (Domestic) and HT-VI (Townships and Residential Colonies) may install the Rooftop Solar PV System under the Group Net Metering Arrangement for less than 100 (One Hundred) KWp capacity.
- d. The eligible consumer of all categories except temporary supply category may install the Rooftop Solar PV System under the Gross Metering Arrangement up to 1 (one) MWp capacity.
- e. The eligible consumer of all categories except temporary supply category may install the Rooftop Solar PV System under the Virtual Net Metering Arrangement for less than 100 (One Hundred) KWp capacity.
- f. A prosumer having net metering arrangement will not be entitled for gross metering and virtual net metering arrangement under these Regulations.
- g. A prosumer having gross metering arrangement will not be entitled for net metering, Group Net Metering and virtual net metering arrangement under these Regulations.

- h. The minimum size of the Rooftop Solar PV System that can be set up under Net Metering and Gross Metering arrangement would be 1 (one) KWp. The minimum size of the Rooftop Solar PV System that can be set up under Group Net Metering and Virtual Net Metering arrangement, would be 10 (Ten) KWp. The minimum load of the prosumer/participating consumer/participating connection for setting up Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering arrangement shall be 1 (one) KWp.
- i. The maximum Rooftop Solar PV capacity to be installed in any Eligible consumer's premises shall be as under:
  - i. **Net Metering and Gross Metering:**
    - a. For residential and Government Consumers: upto a maximum of 100% of consumer's sanctioned load.
    - b. For Industrial, Commercial and Other consumers: upto a maximum of 80% of sanctioned load/contracted demand of the consumer.
  - ii. **Group Net Metering:**

For residential and Government Consumers: shall not exceed the sum of Contracted Demands or Contracted loads or sanctioned loads of the parent consumer and the participating connections, put together.
  - iii. **Virtual Net Metering:**
    - a. For residential and Government Consumers: shall not exceed the sum of Contracted Demands or Contracted loads or sanctioned loads of the participating consumers, put together.
    - b. For Industrial, Commercial and Other consumers: upto a maximum of 80% of the sum of Contracted Demands or Contracted loads or sanctioned loads of the participating consumers, put together. Provided that in case of reduction in contracted capacity of parent/participating consumer due to deration loads and if the contracted capacity of all the parent and participating consumers is less than the sanctioned solar rooftop capacity, the excess power injected proportionate to the reduction in capacity shall be treated as inadvertent power.
- j. Eligible consumers as well as participating consumers/connections with pending arrears with the Distribution Licensee shall not be entitled for Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangement under these Regulations.
- k. The eligible consumers having Net Metering Arrangement or Gross Metering Arrangement under these regulations are entitled to avail the facility of Open Access under TGERC Terms and Conditions of Open Access, Regulation 2024 and subsequent amendments from time to time subject to condition that sum of OA capacity and Solar roof top PV system capacity shall not be more than their Contracted Maximum Demand/ Contracted load.

1. The parent consumers and participating connections/ participating consumers under Group Net Metering and Virtual Net Metering Arrangements under these regulations are entitled to avail the facility of Open Access under TGERC Terms and Conditions of Open Access, Regulation 2024 and subsequent amendments from time to time subject to condition that sum of OA capacity and allocated Solar roof top PV system capacity of parent consumers and participating connections/ participating consumers as per allocation ratio provided in the GNM / VNM agreement shall not be more than their respective Contracted Maximum Demand/ Contracted load. Provided that wheeling of energy shall be allowed from parent consumer/prosumer to the participating consumers/participating connections in the manner and on payment of charges as specified in para II (o),(p), and (q).
- m. Third party sale (other than arrangement as mutually agreed between parent consumer and participating consumers) shall not be allowed under Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangements
- n. In case a Rooftop Solar PV System whether self-owned or leased by a Third Party Owner, is installed on prosumer premises under Net Metering arrangement or Gross Metering Arrangement, as the case may be, prosumer shall be exempted from banking charges, wheeling charges, cross subsidy surcharge and additional surcharge.
- o. In case a Rooftop Solar PV System whether self-owned or leased by a Third Party Owner, is installed on prosumer premises under Group Net Metering arrangement, prosumer/ parent consumer and participating connection(s) shall be exempted from banking charges, cross subsidy surcharge and additional surcharge. Wheeling charges shall be applicable only on participating connections(s) as per the voltage level of the participating connection(s). Wheeling losses shall be applicable only on participating connection(s). Provided that Wheeling charges (Rs /kVA/month) and Wheeling losses are to be levied as per terms and conditions approved by the Commission from time to time in the wheeling Tariff order.
- p. In case a Rooftop Solar PV System whether self-owned or leased by a Third Party Owner, is installed on prosumer premises under Virtual Net Metering, participating consumer(s) shall be exempted from banking charges. Cross subsidy surcharge and additional surcharge shall be applicable only on participating consumer(s) as per the provisions of TGERC Terms and Conditions of Open Access, Regulation 2024. Wheeling charges shall be applicable only on participating consumer(s) as per voltage level of the participating consumer(s). Wheeling losses shall be applicable only on participating consumer(s). Provided that Wheeling charges (Rs /kVA/month) and Wheeling losses are to be levied as per terms and conditions approved by the Commission from time to time in the wheeling Tariff order.

- q. In case of Group Net Metering and Virtual Net Metering connections, voltage wise losses as determined under Wheeling Tariff Order of Commission in force shall be applicable on wheeled energy prior to crediting it into account of participating connections/ consumers. Wheeling charges, cross subsidy surcharge, additional surcharge (if applicable), as the case may be, shall be applicable on the participating consumers/connections as determined by the Commission from time to time.
- r. The facility of net metering or gross metering or GNM or VNM, as the case may be, shall be applicable to an eligible consumer/ prosumer of the Rooftop Solar PV System for a period of Twenty-five (25) years from the date of connection with the Grid of the Distribution Licensee.
- s. An eligible consumer/prosumer intending to install a Rooftop Solar PV System having the capacity in excess of 56 KWp shall insure the Rooftop Solar PV system and obtain the certificate from the Chief Electrical Inspector to the Government (CEIG), who shall test and certify the safety and protection within Fifteen (15) working days from the date of receipt of the information. Provided that the Solar PV System having capacity up to 56 KWp shall be inspected, tested and self-certified by the eligible consumer with regard to the safety and protection.
- t. An eligible consumer intending to install a Roof Top Solar PV system having capacity in excess of 56 KWp can connect to 11 KV or 33 KV feeder of a Distribution Licensee from which the feeder of an eligible consumer is availing of supply of power.

### **III. Procedure for Application, Registration and approval:**

#### **A. Online Mode:**

An Eligible consumer shall submit the application through TGSPDCL website [www.tgsouthernpower.org](http://www.tgsouthernpower.org), and select the "Rooftop solar" tab, and proceed for further process.

An Eligible Consumer has to pay the application processing fee (Rs.2500 for LT service & Rs.15000 for HT service) through online payment mode. After successful payment, a registration number will be generated, which shall be noted down for further correspondence with the TGSPDCL.

#### **B. Offline Mode:**

- i. An Eligible consumer shall submit the application to connect its Rooftop Solar PV System to the distribution system of the Licensee for approval of net metering, gross metering, group net metering or virtual net metering connections in the specified form as per Annexure-1 to Annexure-4 appended with the Regulation along with processing fee as specified below at the concerned office of the Distribution Licensee.

<b>System. Size</b>	<b>Applicable fee per connection</b>
For all LT Consumers	<b>Rs.2,500</b>
For all HT Consumers	<b>Rs.15000</b>

- ii. In case of group net metering or virtual net metering arrangement an undertaking as per Annexure-5 or Annexure-6 respectively shall also has to be furnished for all the participating connections/consumers of group net metering and virtual net metering.

**C. Further process after successful submission of application:**

- i. The nodal point of contact for the Solar Net Metering programme shall be the local Divisional Engineer (Operations) of the Licensee who has the jurisdiction over the premises of the eligible consumer. The Consumer can download the Application from the official website of Distribution Licensees (TGDISCOMs) and submit the filled in Application to the Asst. Divisional. Engineer (Operations) concerned of the Licensee for LT consumers and Divisional Engineer (Operations) concerned for HT consumers.
- ii. The Distribution licensee shall acknowledge the receipt of the application form and register the application and shall process the application in the chronological order of the receipt.
- iii. Within seven (7) working days of the receipt of the Eligible Consumer's /Prosumer's application, the distribution licensee shall provide a written notice that it has received all the documents required for the interconnection point or furnish the deficiencies in the application.
- iv. The Distribution Licensee shall assess the feasibility of interconnection point and the relevant distribution transformer capacity and/ or relevant 11 KV / 33KV feeder capacity (in case of HT consumer) and communicate the same to the Eligible Consumer within Fifteen (15) working days from the receipt of proper application. The feasibility so communicated shall be valid for a period of four (4) months, unless extended by the Distribution Licensee for a reasonable cause. Any application not acted up by the Distribution Licensee within Fifteen (15) working days from the date of receipt shall be deemed to have been approved.
- v. For the roof top solar photo voltaic systems up to 10 KWp capacity complete in all respects shall be deemed to have been accepted without requiring technical feasibility study and any commensurate enhancement of the sanctioned load of the consumer, as may be required, shall be carried out by the Distribution Licensee.
- vi. The cost of strengthening the distribution infrastructure, including distribution transformer, as necessary, to facilitate the 'installation of solar photo voltaic systems up to a capacity of 5 KWp shall be included in the Annual Revenue Requirement of the Distribution Licensee. Feasibility communicated by the Distribution Licensee shall not exceed a period of Ten (10) months including the extended time from the date of first feasibility communication.
- vii. While communicating the feasibility for the connection of Rooftop Solar PV System, the Distribution Licensee shall communicate the Eligible Consumer:

- a. Particulars of deficiencies with reference to interconnection of the proposed Rooftop Solar PV System with the Distribution System of Licensee.
  - b. Cost estimate for removal of such deficiencies including augmentation of the transformer / distribution system, if required.
- viii. The Eligible Consumer shall pay the estimated amount to the distribution licensee within Fifteen (15) days of receipt of such communication from the distribution licensee. If not paid by the Eligible Consumer within Fifteen (15) days from the date of receipt of such communication to the Eligible Consumer, the application shall stand cancelled and the application fee shall be forfeited.

Provided further that where approval cannot be granted due to inadequate Distribution Transformer capacity or 11 KV / 33 KV Feeder capacity (in case of HT consumer), the application may be considered, in chronological order of seniority and if the consumer so opts, after such capacity becomes available.
- ix. The Distribution Licensee, on receipt of the estimate amount, shall promptly remove the deficiencies in the distribution system including 'augmentation of the transformer / distribution network within Fifteen (15) days. The augmentation of the system shall be in accordance with the time period specified in the Standards Of Performance notified by the Commission, if the period exceeds Fifteen (15) days as provided above.
- x. On removal of such deficiencies including augmentation of distribution transformer/distribution network, the distribution licensee shall immediately convey the approval for interconnection of the proposed Rooftop Solar PV System to the Eligible Consumer. A copy of such approval shall also be forwarded to the State Nodal Agency and the Chief Electrical Inspector by the distribution Licensee for necessary action by them.
- xi. The Connection agreement as devised by the Distribution Licensee shall be executed by the Eligible Consumer with the distribution licensee within Fifteen (15) days of receipt of the approval in Annexure 7.
- xii. After installation of Rooftop Solar PV System, the Consumer /Prosumer shall submit the installation certificate to the Distribution Licensee. The licensee shall complete signing of connection agreement, installation of meter and successful commissioning of the Rooftop Solar PV System within fifteen (15) days from the date of submission of the installation certificate.
- xiii. Formats of connection agreement and installation certificate shall be placed on web portal of the Distribution Licensee within the thirty days of notification of these Regulations. The Distribution Licensee shall also provide facility for online submission of above document.

**IV. Capacity limits of Distribution Transformer, 11 kV and 33 kV Feeder level:**

- a. The distribution licensee shall allow the Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangement to an eligible consumer/prosumer. Provided that the cumulative capacity of all the Rooftop Solar PV Systems of LT eligible consumers under the Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangements connected to a particular Distribution Transformer of the Licensee shall not exceed 50% of its rated capacity.
- b. further that the cumulative capacity of all the Rooftop Solar PV Systems of 11 KV or 33 KV HT consumers as the case may be under the Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangements connected to a particular 11KV feeder or 33 KV feeder of the Distribution Licensee shall not exceed 50% of its maximum load permitted on that particular 11 KV Feeder / 33 KV feeder or 50% of the substation capacity/PTR capacity to which the 11KV/33 KV feeder is connected, as the case may be.
- c. The Distribution Licensee shall provide information on its website regarding , the capacity available on each Distribution Transformer and 11 KV feeder of a substation and 33 KV feeder for connecting the Rooftop Solar PV Systems under the Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangements.

**V. Synchronization with the Distribution Network/Grid: Standards and Safety:**

- a. The Eligible Consumer shall submit work completion report as mentioned in Annexure-8, and shall make a request for inspection. The concerned ADE (Operation) for LT services or concerned DE (Operation) for HT services shall inspect the system within five (15) working days and provide approval.
- b. The ADE (Operation) & ADE (Meters & Protection) for LT services Or DE (Operation) & DE (Meters & Protection ) for HT services shall ensure while the inspection that the inter-connection of the Rooftop Solar PV System with its Network conforms to the specifications, standards and other provisions specified by the Central Electricity Authority (CEA) in (Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013, the CEA (Measures relating to Safety and Electric Supply), Regulations, 2010, the State Grid Code and their amendments thereof, provided that a variation in the rated capacity of the system within a range of five percent (5%) shall be allowed.
- c. Solar Rooftop PV system should qualify the technical requirements for the grid interconnection with the network of the distribution licensee and it shall be separately grounded/ earthed. Provided that an eligible consumer may use his Rooftop Solar PV system in Island mode for his own consumption only.
- d. The HT consumers may install the Rooftop Solar PV System at Low Tension (LT)/High Tension (HT) voltage and have to connect them to their

LT/HT system for interconnection of the Rooftop Solar PV Systems with the local Distribution Licensee's grid subject to confirmation to the standards at para V(b).

- e. The Rooftop Solar PV Energy Generator shall be responsible for Safe operation, maintenance and rectification of defect of its system up to the interconnection points beyond which the responsibility of safe operation, maintenance and rectification of any defect in the system including the net meter/gross meter shall rest with the distribution licensee.
- f. The eligible consumer shall be solely responsible for any accident to human being or animals (fatal/non-fatal/departmental/ non departmental) that may occur due to back feeding from the Rooftop Solar PV System when the grid supply is off. The distribution licensee reserves the right to disconnect the consumer's installation at any time to prevent any accident or damage to men and material. The Licensee shall not be responsible to pay any ex-gratia on account of fatal accidents or non-fatal accidents occurring on account of the Rooftop Solar PV System in the premises of the eligible consumer. Provided that the distribution licensee may require the eligible consumer to rectify any defect within two days of intimation to the eligible consumer.
- g. The tests shall be done as per the standards stated in this sub-para and in accordance with the distribution licensee's standards of the performance to ensure the quality of power generated from the Rooftop Solar PV Systems:
  - i. **DC Power Injection:** Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions duly complying IEC 61727, 2nd Ed. (2004).  
-CEA's (Technical Standards for Connectivity of Distributed Generation Resources) Regulations, 2013
  - ii. **Harmonic Injection:-** CEA's (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013: IEEE 519 (2014), "Recommended practice and requirements for harmonic control in electric power systems
  - iii. **Flicker:** Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC 61000 series
  - iv. **Power Factor:** While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 should operate duly complying
    - IEC 61215 2nd Ed (2005-04)
    - IEC 61646. 2nd Ed, (2008-05)
    - IEC 62108. 1st Ed, (2007-12)
    - IEC 61730-1, Ed. 1.2 (2013-03)
    - IEC 61730-2, Ed. 1.1 (2012-11).

- h. Any alternate source of supply shall be restricted to the consumer's/prosumer's network and the consumer/prosumer shall be responsible to take adequate safety measures to prevent battery power or diesel generator power or back-up power extending to the distribution licensee's LT / HT grid on failure of the distribution Licensee's grid supply. Safety measures may include isolation of net metering/gross metering/GNM/VNM arrangement from the grid.
- i. The distribution licensee shall have the right to disconnect the Rooftop Solar PV System of an eligible consumer /prosumer from its system at any time on the following situations/conditions:
  - i. Emergencies or maintenance requirement of the distribution licensee's electric system.
  - ii. Hazardous conditions existing on the distribution licensee's system due to operation of the Rooftop Solar PV System or the protective equipment as determined by the Distribution Licensee/Transmission Licensee/State Load Despatch Centre (SLDC).
  - iii. Adverse electrical effects, such as power quality problems, On the electrical equipment of other consumers/prosumers of the distribution licensee caused by the Rooftop Solar PV System as determined by the distribution licensee.
- j. The Rooftop Solar PV System should be capable of detecting an unintended island condition and must have an anti-islanding protection to prevent any unfavourable conditions including failure of supply. IEC 61727,2nd Ed. (2004) 0; ICC 62116, 2nd Ed. (2014-02) shall be followed to test the island prevention measure for the grid connected photovoltaic inverters.
- k. Every Rooftop Solar PV System shall be equipped with the automatic synchronization device provided that the Rooftop Solar PV System using the inverter shall not be required to have a separate synchronization device, if the same is inherently built into the inverter.
- l. The Rooftop Solar PV System operating in parallel with the electricity system shall be equipped with the following protective functions to sense the abnormal conditions on the electricity system and cause the Rooftop Solar PV System to be automatically disconnected from the electricity system or to prevent the Rooftop Solar PV System from being connected inappropriately to the electricity system:
  - i. Over and Under Voltage trip functions if voltage reaches above 110% or below 80% respectively with a clearing time upto two (2) seconds.
  - ii. Over and Under Frequency trip functions, if frequency reaches 50.3 Hz or below 49.2 Hz with in a clearing time upto 0.2 seconds,
  - iii. The Rooftop Solar PV System shall cease to energize the circuit to which it is connected in case of any fault in the circuit,

- iv. A voltage and frequency sensing and time delay function to prevent the Rooftop Solar PV System from energizing a de-energized circuit and to prevent the Rooftop Solar PV System from reconnecting with the electricity system unless voltage and frequency is within the prescribed limits and are stable for at least sixty (60) seconds, and
- v. A function to prevent the Rooftop Solar PV System from contributing to the formation of an unintended island and ceases to energize the electricity system within two (2) seconds of the formation of an unintended island.
- m. The equipment of the Rooftop Solar PV System shall meet the following safety requirements:
  - i. Circuit Breakers or other interrupting equipment shall be suitable or their intended application with the capability of interrupting the maximum available fault current expected at their location.
  - ii. The Rooftop Solar PV System and the associated equipment shall be so designed that the failure of any single device or component shall not potentially compromise the safety and reliability of the electricity system and
  - iii. Paralleling device of the Rooftop Solar PV System shall be capable of withstanding 220% of the nominal voltage at the interconnection point.
- n. Every time the Rooftop Solar PV System of the Eligible Consumer/Prosumer is synchronized with the Distribution system it shall not cause the voltage fluctuation greater than +/- 5% at the point of interconnection.
- o. After considering the maintenance and safety procedures the concerned Asst. Divisional Engineer(Operation)/ Divisional Engineer(Operation) may require the eligible consumer/prosumer of Rooftop Solar PV System to provide a manually operated isolator switch between the Rooftop Solar PV System and the electricity system which shall meet following requirements:
  - i. Allow visible verification that separation has been accomplished,
  - ii. Include indications to clearly show open and closed positions,
  - iii. Be capable of being reached quickly and conveniently twenty-four (24) hours a day by the licensee's personnel without requiring the Clearance from the eligible consumer/Prosumer,
  - iv. Be capable of being locked in the open position,
  - v. May not be rated for load break and may not have a feature of over-current protection, and
  - vi. Be located at a height of at least 2.44 m above the ground level.
- p. Prior to synchronization of the Rooftop Solar PV System for the first time with the distribution system, the eligible consumer/prosumer and the concerned Asst. Divisional Engineer(Operation)/ Divisional Engineer (Operation) shall agree on the protection features and the control mechanism.

- q. The power conditioning unit shall have the features of filtering out harmonics and other distortions before injecting the energy into the system of the distribution utility. The Total Voltage Harmonic Distortion (THD) shall be within the limits specified in the Indian Electricity Grid Code (IEGC). The technical standards, power quality standards and inverter standards shall be specified by the Distribution Licensee before entering into an agreement with the eligible consumer/prosumer or any other standards as may be specified by the CEA from time to time.

## **VI. Metering arrangement**

- a. All meters installed at the Rooftop solar PV system shall comply with the CEA (Installation and Operation of Meters) Regulations, 2006 and subsequent amendments thereof. All meters (smart meters) shall have Advanced Metering, Infrastructure (AMI) facility with RS 485 (or higher) communication port or any other advanced communication facility.
- b. The Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangement shall include a Single-phase or a Three-phase Meter, as may be required, located at the same point of inter-connection to the Distribution system within the premises of the prosumer as per CEA (Installation and Operation of Meters) Regulations.
- c. In case of switching over of existing retail consumers to Net Metering the existing meter in the premises of the prosumer shall be replaced by the bidirectional smart meter as per CEA (Installation and Operation of Meters) Regulations at the cost of the prosumer.  
Provided that in case of Gross Metering, Group Net Metering and Virtual Net Metering Arrangements, the existing consumer meter in the premises of the prosumer shall be continued for accounting and settlement of the units wheeled/ imported from the grid.  
Provided further that in case of Gross Metering, Group Net Metering and Virtual Net Metering arrangement the smart meters shall be installed for accounting and settlement of units exported to grid.
- d. The bi-directional meter/the consumer meter (in case of Gross and Virtual Net Metering) and the Solar Generation Meter, wherever required as per Regulations shall be installed close to the entrance within the premises so as to make it easily accessible to the meter reader.
- e. If the parent consumer is within the ambit of Time-of-Day (TOD) Tariff, the Solar Generation Meter and the consumer Meter or the bi directional meter installed (as the case may be), shall be capable of recording ToD generation and consumption respectively.
- f. The Distribution Licensee shall be responsible for the testing, installation, and maintenance of the metering equipment, and its adherence to the applicable standards and specifications.
- g. For Net metering, the prosumer shall install, at his own cost, a solar generation meter conforming to CEA regulations at an appropriate location, to measure the energy generated from the Rooftop Solar P'V System, if he is an obligated entity and desires that such energy be counted towards meeting its RPO.

- h. For Net metering, the Distribution Licensee shall install, at his own cost and with the consent of the Eligible Consumer, a solar generation meter confirming to CEA regulations at an appropriate location, to measure the energy generated from the Rooftop Solar PV System, if it desires that such energy be counted towards meeting its RPO.
- i. The meters installed shall be jointly inspected and sealed on behalf of both the parties and shall be tested or checked in the presence of the prosumer and representatives of the Distribution Licensee - The prosumer shall be duly informed in advance to be present, if he wishes to, at the time of testing.

**VII. Central Financial Assistance (CFA):**

- a. Under PM Surya Ghar Muft Bijli Yojana scheme, MNRE will support the installation of grid-connected rooftop solar projects in the residential sector through CFA. The CFA structure for the PM Surya Ghar Muft Bijli Yojana scheme with effect from date of launch of Scheme, i.e., 13th February, 2024 is as follows:-

<b>S.No.</b>	<b>Type of Residential Segment</b>	<b>CFA</b>
1	Residential Sector (first 2 KWp of RTS capacity or part there of)	Rs 30,000/KWp
2	Residential Sector (with additional RTS capacity of 1 KWp or part thereof)	Rs 18,000/KWp
3	Residential Sector (additional RTS capacity beyond 3 KWp)	No additional CFA
4	Group Housing Societies/ Residential Welfare Associations (GHS/RWA) etc, for common facilities including EV charging up to 500 KWp (@3 KWp per house)	Rs 18,000/KWp

- b. No CFA will be provided to non-residential segments of consumers (including government segment, commercial and industrial segment etc.).

**VIII. Energy Accounting and Settlement**

**A. Net Metering Arrangement:**

The Distribution Licensee shall undertake meter reading of the bidirectional meter, for all prosumers, according to the regular billing period:

- a. For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer:
  - i. Quantum of electricity injected by Rooftop solar PV system in the grid in the billing period, showing initial and final reading.

- ii. Quantum of electricity supplied by the Distribution Licensee in the billing period, showing initial and final reading.
- iii. Quantum of Net billed electricity.
- iv. The net quantum of electricity carried forward upto the date of this Regulation coming into force, shall be settled in the next month.
- v. Units used by the Distribution Licensee for RPO compliance.
- b. The energy exported by the Rooftop solar PV system shall be offset against the energy consumption of the prosumer from the Distribution Licensee in the following manner:
  - i. If the quantum of electricity units exported exceeds the quantum imported during the Billing Period, the excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application. Provided that the settlement rate as mentioned above shall be notified by the Commission from time to time every year. Provided that if the quantum of electricity exported exceeds the quantum imported during the Billing Period, the eligible consumer shall get a monthly minimum bill.
  - ii. If the quantum of electricity units imported by the prosumer during any Billing Period exceeds the quantum of electricity units exported, the Distribution Licensee shall raise its invoice for the electricity consumption after adjusting the credited units:
  - iii. Provided that in case, where the prosumer is under HT category, the electricity consumption in any time block (e.g., peak hours, off-peak hours, etc.) shall be first compensated with the electricity exported in the same time block. Any cumulative excess exported electricity over and above the consumption in any other time block in a billing period shall be accounted as if the excess exported electricity occurred during the off-peak time block. Provided further the imported units, shall satisfy the minimum charges based on consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for

minimum charges based on consumption, in Retail Supply Tariff order shall be applicable.

**B. Group Net Metering Arrangement:**

- a. The Distribution Licensee shall undertake meter reading of the Solar Generation Meter of parent consumer and the Consumer Meters for parent consumer and all participating connections, according to the regular billing period.
- b. For each Billing Period, the Distribution Licensee shall make the following information available on its bills to the parent consumer and its connections.
  - i. Quantum of electricity injected by Rooftop solar PV system in the grid in the billing period, showing initial and final reading in the parent consumer's bill.
  - ii. Quantum of gross electricity allocated out of total energy injected by the Rooftop solar PV system in the grid in the billing period as per priority and ratio declared as per GNM agreement in parent consumer and each participating connections' bill.
  - iii. Quantum of energy deducted on account of losses from wheeled energy.
  - iv. Quantum of electricity supplied by the Distribution Licensee in the billing period, showing initial and final reading for parent consumer and each participating connection's bill.
  - v. Quantum of net billed electricity and
  - vi. Units used by the Distribution Licensee for RPO compliance only in parent consumer's bill.
- c. The energy exported by the Rooftop solar PV system under GNM arrangement shall be offset against the energy consumption of the prosumer and participating connections of the same prosumer from the Distribution Licensee in the following manner:
  - i. The electricity consumption of parent consumer and each participating connections shall be first adjusted with the electricity allocated to parent consumer and participating connections in the same billing period in the priority and ratio provided in the GNM Agreement. If the quantum of electricity units imported by the parent consumer / participating connections during any Billing Period exceeds the quantum of electricity

units allocated, the Distribution Licensee shall raise its invoice for the net electricity consumption.

- ii. In case, where the parent consumer/ participating connections is under HT Category, the electricity consumption of the parent consumer/ participating connections in any time block (e.g., peak hours, off-peak hours, normal hours etc.) shall be first compensated with the electricity allocated in the same time block in the same billing cycle. Any cumulative excess allocation over and above the consumption in the above time blocks in a billing period shall be accounted in the same billing period as if the excess allocation has occurred during the off-peak time block.
- iii. In case the quantum of electricity units allocated to the parent consumer/ participating connection(s) exceeds the quantum imported by the parent consumer/ participating connection(s) during the same Billing Period the excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application, Provided also that the net imported units/consumption of parent consumer and participating connections shall satisfy the Minimum Charges based on Consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for minimum energy charges criteria or Minimum Charges based on Consumption, as the case may be, in Retail Supply Tariff order shall be applicable.
- iv. The parent consumer shall have the option to change the share of credit of electricity from Rooftop solar PV system among its participating connections and also addition or deletion of participating connections indicated under the group net metering agreement once in the financial year with advance notice of 6 months.
- v. Where any participating connection is disconnected due to any reason under any law for the time being in force,

the unadjusted amounts of that connection shall be settled by the distribution licensee at the end of the Financial Year.

**C. Gross Metering Arrangement**

- a. The Distribution Licensee shall undertake meter reading of both, the Solar Generation Meter and the Consumer Meter, for all prosumers under Gross Metering Arrangement, according to the regular billing period
- b. For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer
  - i. Quantum of electricity generation recorded by the solar generation meter of the Rooftop solar PV system in the billing period, showing Initial and Final readings.
  - ii. Quantum of electricity units consumed by the prosumer from licensee's system in the billing period. showing Initial and Final readings.
  - iii. Credited amount towards payment of energy supplied to the distribution licensee, if any, in the billing period; and
  - iv. Units from Solar generation used by the Distribution Licensee for RPO compliance
- c. The Distribution Licensee shall purchase entire power generated from the Rooftop solar PV system at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered.
- d. The energy supplied by the Distribution Licensee during the billing period shall be billed as per the tariff schedule for respective category of consumer and the terms and conditions of the Retail Supply Tariff Order read with provisions under the Electricity Supply Code Regulation, as amended from time to time.
- e. The Distribution Licensee shall prepare a net bill comprising of the amount payable by Distribution Licensee and amount payable by prosumer for each billing period
- f. The net bill amount for a billing period is payable by the prosumer, then the same shall be paid by the prosumer within the due date of the bill.

- g. Further that if the net bill amount for a billing period is payable by Distribution Licensee, the amount shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application.

**D. Virtual Net Metering Arrangement**

- a. The Distribution Licensee shall undertake meter reading of the Solar Generation Meter, the Prosumer/ parent consumer and all the participating Consumers of the Parent Consumer, according to the regular billing period.
- b. For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer/parent consumer:
  - i. Quantum of electricity generation recorded by the solar generation meter of the Rooftop solar PV system in the billing period, showing initial and final reading in the parent consumer bill.
  - ii. Quantum of electricity units consumed by the prosumer/ consumer from licensee's system in the billing period, showing initial and final reading.
  - iii. Units from Solar generation used by the Distribution Licensee for RPO compliance.
- c. For each Billing Period, the Distribution Licensee shall make the following information available on its bills to the participating consumers:
  - i. Quantum of electricity generated by Rooftop solar PV system in the grid in the billing period, showing initial and final reading in the parent consumer bill.
  - ii. Quantum of electricity allocated to participating consumer out of total energy injected by the Rooftop solar PV system in the grid in the billing period as per priority and ratio declared by parent consumer in each participating consumer.
  - iii. Quantum of energy deducted on account of losses from wheeled energy.
  - iv. Quantum of net electricity allocated out of total energy injected by the Rooftop solar PV system in the grid in the billing period as per priority and ratio declared by parent consumer in each participating consumer.
  - v. Quantum of electricity supplied by the Distribution Licensee in the billing period, showing initial and final reading for each of the participating consumers and
  - vi. Quantum of Net billed electricity.

- d. The energy exported by the Rooftop solar PV system under VNM arrangement shall be offset against the energy consumption of the participating consumers from the Distribution Licensee in the following manner:
  - i. The electricity consumption of each participating consumer shall be first adjusted with the electricity exported by the Rooftop solar PV system in the same billing period of the participating consumer in the priority and ratio provided in the VNM Agreement. Any surplus generation/ export over consumption in a billing period shall be accounted in the same billing period as if the surplus generation/ energy export has occurred during the off-peak time block for HT consumers and any time block for LT consumers.
  - ii. If the quantum of electricity units exported and allocated to the participating consumer exceeds the quantum imported by the participating consumer during the same Billing Period, such excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application. Provided that the imported units shall satisfy the Minimum Charges based on Consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for minimum energy charges criteria or Minimum Charges based on consumption, as the case may be, in Retail Supply Tariff order shall be applicable.
  - iii. If the quantum of electricity units imported by the participating consumer during any Billing Period exceeds the quantum of electricity units wheeled from Solar Generator, the Distribution Licensee shall raise its invoice for the electricity consumption after adjusting the credited units to participating consumer.
  - iv. The parent consumer shall have the option to change the share of credit of electricity from Rooftop solar PV

system among its participating consumers and also addition or deletion of participating consumers under intimation to existing and added participating - consumers indicated under the virtual net metering agreement once in the financial year with advance notice of 6 months.

- v. The Distribution Licensee shall prepare a net bill comprising of the amount payable by Distribution Licensee and amount payable by prosumer and participating consumers for each billing period. Provided that if the net bill amount for a billing period is payable by the parent consumer and participating consumers, then the same shall be paid by them within the due date of the bill. Provided further that if the net bill amount for a billing period is payable by Distribution Licensee, then the same shall be settled at the end of the settlement period. No interest shall be payable by Distribution Licensee on such credited carried forward amount.
- vi. Where the service connection of prosumer/ parent consumer and/or any participating consumer is disconnected due to any reason under any law for the time being in force, the unadjusted units/ remaining credit of that prosumer/ consumer shall be paid by the distribution licensee at the end of the settlement period.
- vii. The quantum of electricity units exported by the consumer/prosumer shall be measured in KWh only in case applicable tariff provides for energy billing in KVAh basis and if during the billing period, the eligible consumer delivers surplus electricity to a distribution licensee for off-setting the quantum of electricity, the power factor shall be assumed equal to unity.
- viii. The prosumer/participating connection(s) / participating consumer(s) of whose entitlement as a consumer of the Licensees is ceased or he is not settling his dues to the licensee, shall not be entitled to receive due amount of the adjustment/credit till the time past dues and other charges as applicable are paid.
- ix. In case of any dispute in billing it shall be settled under the provisions of Telangana Electricity Regulatory Commission (Establishment of Mechanism for Redressal of Grievances of the Consumers) Regulation, 2015 as amended from time to time.

Energy Accounting and Settlement under Net Metering, Gross Metering, Group Net Metering and Virtual Net Metering arrangements is illustrated in Annexure-9.

**IX. Applicability of other charges:**

The Distribution Licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government on the net billed units.

**X. Inspection by DISCOM Officials:**

- a. The Distribution Licensee on inspection at the time of according of permission to install the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering Connection Agreement or at any time thereafter, finds that, the eligible consumer has installed equipment not conforming to the standards published by the International Electro technical Commission (IEC) or Bureau of Indian Standards (BIS) as a part of the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering Connection Agreement in the prosumer's/consumer's premises, the vendor of the equipment shall be blacklisted and the same shall be notified to the MNRE. Further, the Licensee reserves the right to withdraw the permission to the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering Connection Agreement and cancel the connection agreement with the eligible consumer after giving an opportunity in writing.
- b. The eligible consumer shall install any additional equipment or additional Solar panels after obtaining prior permission in writing from the Distribution Licensee, failing which, the Distribution Licensee may cancel the connection Agreement after giving an opportunity in writing.

**XI. Energy Accounting during Meter defects**

In case of failure of the meter recording export of energy, the meter shall be replaced within 15 days of the notice of the failure. The number of units to be billed during the period in which the meter ceased to function or became defective, shall be determined by taking the average of the electricity exported during the preceding three billing cycles to the billing cycle in which the said meter ceased to function or became defective provided that the condition with regard to export of electricity during the said three billing cycles was not different from that which prevailed during the period in which the Meter ceased to function or became defective.



Annexure-1  
Application for Net Metering Connection

To,  
The Divisional Engineer/ Assistant  
Divisional Engineer , (O&M)/ City,  
Division, Telangana

Subject: Application for Net Metering Connections

I intend to connect Rooftop solar PV system in compliance of Telangana Electricity Regulatory Commission (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system), 2025 and any further amendments thereto for the purpose of providing net metering connection at my premises as per details furnished herewith: -

1	Name of Applicant	
2	Passport size Photo of the Applicant	
3	Aadhar Number	
4	Address of the Applicant for correspondence	
5	Address of the site for installation	
6	Service Connection No. of Applicant	
7	Email ID (In Capital Letters)	
8	Telephone/Mobile No. of the Applicant	
9	Bank Account details of the Applicant	
10	Type of connection (Individual/Apartment/Group Housing)	
11	Tariff Category	
12	Supply Voltage Level	
13	Sanctioned Load/ Contract Demand as per latest electricity bill (kW/kVA)	
14	Average monthly consumption of electricity	
15	If willing to avail CFA , name of System Integrator	
16	Capacity of Rooftop solar PV system proposed to be connected (kW)	
	Whether applied capacity of Rooftop solar PV system $\leq 10$ kW	Yes/No
	Whether applied capacity of Rooftop solar PV system $\leq$ sanctioned load	Yes/No
17	Whether system has automatic isolation protection (Yes/No)	
18	Has a separate Solar Generation Meter been installed (Yes/No)	
19	Expected date of Commissioning of the Rooftop solar PV system	
20	Details of Test Certificate of the Solar Plant	

I hereby request you to provide grid connectivity to Rooftop solar PV system installed or planning to be installed at the premises owned /occupied by me and facility of Net Metering Connections. Details supported by necessary evidence are furnished hereunder.

I declare that the information submitted for Net metering is checked and verified to the best of my knowledge and belief.

**Name of consumer**

**Signature of consumer**

**Acknowledgment**

Received an application for Net Metering connection from

Name of Applicant:

Service Connection Number:

Plant Capacity:

Application Registration Number:

Date of Receipt:

Name and signature of Officer

Designation

**Name and Signature of Officer  
Designation**

**Check list:**

1	Copy of latest Electricity Bill	Yes/No
2	Proof of payment of processing fee	Yes/No
3	2 Nos. self addressed Rs.5/- stamped envelopes	Yes/No
4	Copy of Bank Passbook covering details of Account Holder	Yes/No



Annexure-2

Application for Gross Metering Connection

To,  
The Divisional Engineer/ Assistant  
Divisional Engineer , (O&M)/ City,  
Division, Telangana

Subject: Application for Gross Metering Connections

I intend to connect Rooftop solar PV system in compliance of Telangana Electricity Regulatory Commission (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 and any further amendments thereto for the purpose of providing gross metering connection at my premises as per details furnished herewith: -

1	Name of Applicant	
2	Passport size Photo of the Applicant	
3	Aadhar Number	
4	Address of the Applicant for correspondence	
5	Address of the site for installation	
6	Service Connection No. of Applicant	
7	Email ID (In Capital Letters)	
8	Telephone/Mobile No. of the Applicant	
9	Bank Account details of the Applicant	
10	Type of connection (Individual/Apartment/Group Housing)	
11	Tariff Category	
12	Supply Voltage Level	
13	Sanctioned Load/ Contract Demand as per latest electricity bill (kW/kVA)	
14	Average monthly consumption of electricity	
15	If willing to avail CFA , name of System Integrator	
16	Capacity of Rooftop solar PV system proposed to be connected (kW)	
	Whether applied capacity of Rooftop solar PV system $\leq 10$ kW	Yes/No
	Whether applied capacity of Rooftop solar PV system $\leq$ sanctioned load	Yes/No
17	Whether system has automatic isolation protection (Yes/No)	
18	Has a separate Solar Generation Meter been installed (Yes/No)	
19	Expected date of Commissioning of the Rooftop solar PV system	
20	Details of Test Certificate of the Solar Plant	

I hereby request you to provide grid connectivity to Rooftop solar PV system installed or planning to be installed at the premises owned/occupied by me and facility of Gross Metering Connections. Details supported by necessary evidence are furnished hereunder.

I declare that the information submitted for Gross metering is checked and verified to the best of my knowledge and belief.

**Name of consumer**

**Signature of consumer**

**Acknowledgment**

Received an application for Gross Metering connection from

Name of Applicant:

Service Connection Number:

Plant Capacity:

Application Registration Number:

Date of Receipt:

Name and signature of Officer

Designation

**Name and Signature of Officer  
Designation**

**Check list:**

1	Copy of latest Electricity Bill	Yes/No
2	Proof of payment of processing fee	Yes/No
3	2 Nos. self addressed Rs.5/- stamped envelopes	Yes/No
4	Copy of Bank Passbook covering details of Account Holder	Yes/No



Annexure-3

Application for Virtual Net Metering Connection

To,  
The Divisional Engineer/ Assistant  
Divisional Engineer , (O&M)/ City,  
Division, Telangana

Subject: Application for Virtual Net Metering Connections

I intend to connect Rooftop solar PV system in compliance of Telangana Electricity Regulatory Commission (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system), 2025 and any further amendments thereto for the purpose of providing Virtual Net metering connection at my premises as per details furnished herewith: -

1	Name of Applicant (Parent consumer in whose premises Rooftop Solar PV system is to be installed/already installed)	
2	Passport size Photo of the Applicant	
3	Aadhar Number	
4	Address of the Applicant for correspondence	
5	Address of the site for installation	
6	Service Connection No. of Applicant	
7	Email ID (In Capital Letters)	
8	Telephone/Mobile No. of the Applicant	
9	Bank Account details of the Applicant	
10	Type of connection (Individual/Apartment/Group Housing)	
11	Tariff Category	
12	Supply Voltage Level	
13	Sanctioned Load/ Contract Demand as per latest electricity bill (kW/kVA)	
14	Average monthly consumption of electricity	
15	If willing to avail CFA , name of System Integrator	
16	Capacity of Rooftop solar PV system proposed to be connected (kW)	
	Whether applied capacity of Rooftop solar PV system $\leq 10$ kW	Yes/No
	Whether applied capacity of Rooftop solar PV system $\leq$ sanctioned load	Yes/No

	Location of proposed Rooftop Solar PV system (Rooftop Solar System, Ground mounted system)	
17	Whether system has automatic isolation protection (Yes/No)	
18	Has a separate Solar Generation Meter been installed (Yes/No)	
19	Expected date of Commissioning of the Rooftop solar PV system	
20	Details of Test Certificate of the Solar Plant	

Details of participating consumers and priority and ratio of energy adjustment from Energy Injected by Rooftop Solar PV System \_\_\_\_\_kW capacity.

S.No	Service Connection Nos. of Parent /Participating consumers	Priority	Sanctioned Load/Contracted Demand	Voltage Level of participating consumers	% of Energy to be adjusted	Service Connection Nos. of Parent consumer and sanctioned load/contracted demand (if any)	Signature of participating consumers
		1					
		2					
		3					
		4					
		5					

Note: Any number of participating consumers can be added subject to the condition that total sanctioned load/contract demand of parent consumer as well as participating consumers should not be more than the capacity of Rooftop Solar PV System being installed/already installed. Allocation of energy and consumers may be changed once in a financial year as per the provisions of these regulations.

I hereby request you to provide grid connectivity to the Rooftop Solar PV System installed or planning to be installed at the premises owned /occupied by me and facility of Virtual Net Metering Connections to the participating consumers. Details supported by necessary evidence are furnished hereunder.

I declare that the information submitted for Virtual Net metering is checked and verified to the best of my knowledge and belief.

Name of Applicant

Signature of Applicant

### Acknowledgment

Received an application for Virtual Net Metering connection from

Name of Applicant:

Service Connection Number:  
 Plant Capacity:  
 Application Registration Number:  
 Date of Receipt:

**Name and Signature of Officer**  
**Designation**

**Check list:**

1	Copy of latest Electricity Bill	Yes/No
2	Proof of payment of processing fee	Yes/No
3	2 Nos. self addressed Rs.5/- stamped envelopes	Yes/No
4	Copy of Bank Passbook covering details of Account Holder	Yes/No



Annexure-4

Application for Group Net Metering Connection

To,

The Divisional Engineer/ Assistant  
Divisional Engineer , (O&M)/ City,  
Division, Telangana

Subject: Application for Group Net Metering Connections

I intend to connect Rooftop solar PV system in compliance of Telangana Electricity Regulatory Commission (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system), 2025 and any further amendments thereto for the purpose of providing Group Net metering connection at my premises as per details furnished herewith:-

1	Name of Applicant (Parent consumer in whose premises Rooftop Solar PV system is to be installed/already installed)	
2	Address of the Applicant	
3	Service Connection No. of Applicant	
4	Email ID (In Capital Letters)	
5	Telephone/Mobile No. of the Applicant	
6	Email ID of Installer (In Capital Letters)	
7	Telephone/Mobile No. of Installer	
8	Bank Account details of the Applicant	
9	Tariff Category	
10	Sanctioned Load/ Contract Demand as per latest electricity bill (kW /kVA)	
11	Capacity of Rooftop solar PV system Proposed to be connected (kW)	
	Whether applied capacity of Rooftop solar PV system $\leq 10$ kW	Yes/No
	Whether applied capacity of Rooftop solar PV system $\leq$ sanctioned load	Yes/No
12	Capacity of Rooftop Solar PV System proposed to be connected (kW)	
13	Supply Voltage of Rooftop Solar PV system proposed to be connected	
14	Location of proposed Rooftop Solar PV system (Rooftop Solar System, Ground mounted system)	
15	Whether system has automatic islanding protection (Yes/No)	
16	Has a separate Solar Generation Meter been installed (Yes/ No)	

17	Expected date of Commissioning of the Rooftop solar PV system	
18	Details of Test Certificate of the Solar Plant	

Details of participating connection including parent consumer and priority and ratio of energy adjustment from Energy Injected by Rooftop Solar PV System \_\_\_\_\_KW capacity.

S.No	Service Connection Nos. of parent consumer and Participating connection of the Parent consumer	Priority	Sanctioned Load/Contracted Demand	Voltage Level of participating connections	% of Energy to be adjusted	Service Connection No, sanctioned load/contracted demand and voltage level of Parent consumer
		1				
		2				
		3				
		4				
		5				

Note: Any number of participating connections of the parent consumer can be added subject to the condition that total sanctioned load/contract demand of parent consumer as well as participating connections should not be more than the capacity of Rooftop Solar PV System being installed/already installed. Allocation of energy and connections may be changed once in a financial year as per the provisions of these regulations.

I hereby request you to provide grid connectivity to the Rooftop Solar PV System installed or planning to be installed at the premises owned/occupied by me and facility of Group Net Metering Connections to my other connections. Details supported by necessary evidence are furnished hereunder.

I declare that the information submitted for GroupNet metering is checked and verified to the best of my knowledge and belief.

**Name of Consumer**

**Signature of Consumer**

## Acknowledgment

Received an application for GroupNet Metering connections from

Name of Applicant:

Service Connection Number:

Plant Capacity:

Application Registration Number:

Date of Receipt:

Name and Signature of Officer  
Designation \_\_\_\_\_

Undertaking for incorporating the connections of parent consumer in the priority list of settlement under Group Net Metering (GNM)

- i. I, \_\_\_\_\_ Son/Daughter of \_\_\_\_\_ Resident of \_\_\_\_\_ (hereinafter referred to as "GNM parent consumer", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under:
  - a. Participating connections given in the application form are other connections of this parent consumer.
  - b. GNM participating connection is made aware that a Group Net Metering connection has been applied by "GNM Applicant" at the premises situated at \_\_\_\_\_.
  - c. GNM participating connection is made aware that its service connection number has been given by the GNM Applicant for availing of benefits under GNM Connection.
  - d. GNM participating connection would like to avail the benefits associated with the GNM Connection issued to GNM Applicant and as such is submitting this instant undertaking confirming the terms herein.
  - e. On behalf of GNM participating connections it is confirmed and understood that this present undertaking shall form part of the GNM Application Form submitted by the GNM Applicant and shall be construed in addition to the declarations and undertakings provided therein.

**That on behalf of the GNM participating connections, the authorized signatory for parent consumer hereby agrees and undertakes:-**

- i. That GNM participating connections is a consumer of \_\_\_\_\_ Division of \_\_\_\_\_ Discom with service connection number \_\_\_\_\_ and agrees to avail facility of group net metering from Rooftop Solar PV System installed by the GNM Applicant at \_\_\_\_\_.
- ii. There is no objection if participating connection number is added to the benefits of GNM Connection issued to GNM Applicant in a manner as requested/agreed by GNM Applicant in the GNM Application.
- iii. There is no objection to the benefit credited, calculation of billing units to participating connection under GNM connection as per the provisions of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as notified by the Telangana Electricity Regulatory Commission as amended from time to time.
- iv. Revision of calculation of units or the issues associated with such billing units by DISCOM in consideration of (Regulation for

connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as amended from time to time or any other issues related to are hereby agreed and no claim shall be raised by GNM participating connections against (concerned Discom) in this regard.

- v. GNM Applicant has authority for inclusion of GNM participating connection to avail the benefits of Group Net Metering and also regarding change in priority sequence and share and no claim in this regard shall be raised by the participating connection.
- vi. That DISCOM is hereby indemnified from all law suits/claims/action/liabilities associated with the inclusion/dropping of GNM participating connection from the benefits of Group Net Metering.
- vii. Necessary document and permissions in respect of GNM participating connection shall be either deposited with DISCOM or uploaded on web portal as and when demanded by DISCOM.
- viii. Necessary permissions from the concerned authorities and shall be obtained for the participating connection and submitted with DISCOM, as notified by DISCOM from time to time.
- ix. In case of violation of the terms as stated in this undertaking and other terms as agreed by him/her, DISCOM shall have full rights to drop GNM participating connection from availing the benefits of Group Net Metering.

**Name and Service Connection Number for GNM participating connection:**

**Signature of parent consumer:**

**VERIFICATION:**

Verified at \_\_\_\_\_ that the contents of the above self-declaration are true and correct to the best of my knowledge and belief. This is to declare that no word and/or any statement has been amended/alterd/reframed in connection agreement as provided by \_\_\_\_\_ DISCOM for the needful process of Group Net Metering (GNM) Application.

**Name and Service Connection Number for GNM participating connection:**

**Signature of parent consumer:**

Annexure-6

**Undertaking for incorporating consumers connections in the priority list of settlement under Virtual Net Metering (VNM)**

- i. I, \_\_\_\_\_ Son/Daughter of \_\_\_\_\_ Resident of \_\_\_\_\_ (hereinafter referred to as "VNM Beneficiary", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under:
- ii. VNM Beneficiary is aware that a Virtual Net metering connection has been applied by "VNM Applicant" in the premises situated at \_\_\_\_\_.
- iii. VNM Beneficiary is made aware that a Name/Service connection No. of "VNM Beneficiary" has been given by the VNM Applicant for availing of benefits under VNM connection.
- iv. VNM Beneficiary would like to avail the benefits associated with the VNM Connection issued to VNM Applicant as such is submitting this instant undertaking confirming the terms herein.
- v. VNM Beneficiary confirms and understands that this present Undertaking shall form part of the VNM application Form submitted by the VNM Applicant and shall be construed in addition to the declarations and Undertakings provided therein.

**That the VNM Beneficiary hereby agree and Undertake: -**

- i. That the VNM Beneficiary is a consumer of \_\_\_\_\_ Division of \_\_\_\_\_ Discom with service connection number \_\_\_\_\_ and agrees to avail facility of Virtual net metering from Rooftop Solar PV System installed by the VNM Applicant at \_\_\_\_\_.
- ii. That the VNM Beneficiary has no objection if his service connection number is added to the benefits of VNM Connection issued to VNM Applicant in a manner as requested/agreed by VNM Applicant in the VNM Application.
- iii. That the VNM Beneficiary do hereby agree and undertake that it shall have no objection for the benefit credited, calculation of billing units under VNM connection as per the provision of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system), 2025 as notified by the Telangana Electricity Regulatory Commission as amended from time to time.
- iv. That the VNM Beneficiary do hereby agree and undertake for calculation of units or the issues associated with same billing units may be revised by DISCOM in consideration of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as amended from time to time or any other issues and

the same shall not give any rise to any claim from VNM Beneficiary against (concerned Discom).

- v. That the VNM Beneficiary has given its consent to VNM Applicant for inclusion of VNM Beneficiary for the benefits of Virtual Net Metering and understand that the nomination of VNM Beneficiary is at the discretion of VNM Applicant and the VNM Applicant, at all times, shall be free to change the sequence of VNM Beneficiary and/or drop VNM Beneficiary from the benefits without any clear intimation and the same shall not give any rise to any claim from VNM Beneficiary against Discom.
- vi. That the VNM Beneficiary shall at all time keep DISCOM indemnified from all law suits/claims/action/liabilities associated with the inclusion/dropping of VNM Beneficiary from the benefits of Virtual Net Metering.
- vii. That the VNM Beneficiary undertakes to deposit the Necessary document and permissions with DISCOM as and when demanded by DISCOM.
- viii. That the VNM Beneficiary shall take necessary permissions from the concerned authorities and shall submit the same with DISCOM, as notified by DISCOM from time to time.
- ix. The VNM Beneficiary confirms and agrees that in case of violation of the terms as stated in this undertaking and other terms as agreed by him/her; DISCOM shall be having full right to drop VNM Beneficiary from availing the benefits of Virtual Net Metering.

**Name of VNM Beneficiary:**

**Service Connection Number :**

**Signature of VNM Beneficiary:**

**(on non-judicial stamp paper worth Rs.200/-)**  
**Connection Agreement for Net Metering/Group Net Metering/Gross**  
**Metering/Virtual Net Metering**

This Agreement executed and entered on this \_\_\_\_ (day) of \_\_\_\_\_ (month) \_\_\_\_\_ (year), between M/s / Mr. / Mrs. \_\_\_\_\_ S/o / D/o / W/o. \_\_\_\_\_ which means their/ his/its /theirs, successors as FIRST PARTY herein after called as “Eligible Consumer” and the Southern Power Distribution Company of Telangana Limited, a DISCOM incorporated under the provisions of Companies Act 1956 (which means its authorized representatives assigns, executors and its successors) as SECOND PARTY, herein after called the “DISCOM”. Whereas, the Eligible Consumer has applied to the DISCOM for approval of a Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering arrangement at Sy.No./D.No\_\_\_\_\_, Street\_\_\_\_\_, \_\_\_\_\_ (V), \_\_\_\_\_ (M) \_\_\_\_\_ (District) having electrical Service Connection No. \_\_\_\_\_ under TGERC (Rooftop Solar PV Grid Interactive Systems) Regulation, 2025 Regulation No. 1 of 2025 Dt: 15.11.2025, which is effective from the date of its notification in the official gazette i.e., **15.11.2025**.

And whereas, DISCOM agrees to provide grid connectivity to the Eligible Consumer for injection of electricity generated from the Rooftop Solar PV System of capacity \_\_\_\_\_ KWp into the grid of DISCOM at \_\_\_\_\_ (Voltage level), as per conditions of this agreement. Any modification/ amendment in the Regulation made shall be applicable and corresponding amendment(s) shall be effective to this agreement from time to time. Both the parties hereby agree to as follows:

**1. Governing Provisions**

We hereby undertake to comply with all the requirements of the Electricity Act, 2003, the Rules and Regulations framed there under, Regulation 01 of 2025, provisions of the tariffs, applicable Charges, and the General Terms and Conditions of Supply approved by the Telangana State Electricity Regulatory Commission herein after called as “Commission” from time to time and agree not to dispute the same.

**2. Metering facility**

- i. Eligible Consumer will generate solar power for self consumption and feed excess power into the grid of DISCOM.
- ii. In the premises of Eligible Consumer, a bi-directional Smart meter will be installed by Discom at the cost of prosumer having the feature of recording both the import and export values, besides complying with other parameters notified in CEA metering regulations and TRANSCO/DISCOM procedures for arriving net energy for the billing period.

**3. Safety**

- 3.1** The Eligible Consumer shall be responsible for safe operation, maintenance and rectification of defects in system upto the interconnection point beyond which the responsibility of safe operation, maintenance and rectification of any defect in the system including the bi-directional Smart meter shall rest with the DISCOM.
- 3.2** The Eligible Consumer shall be solely responsible for any accident to human being or animals (fatal / non-fatal / departmental / non departmental) that may occur due to back feeding from the Rooftop Solar PV System when the grid supply is off. The DISCOM reserves the right to disconnect the consumer’s installation at any time to prevent any accident or damage to men and material. The DISCOM shall not be responsible to pay any ex-gratia on account of fatal accidents or nonfatal accidents occurring on account of the Rooftop Solar PV System in the premises of the eligible consumer.
- 3.3** The Eligible Prosumer shall strictly adhere to the standards specified by CEA/MNRE and installations of electrical equipment must comply with Indian Electricity rules, 1956 and also to follow power quality measures as per International or Indian standards and/or other such measures provided in Clause 7 of TGERC (Rooftop Solar PV Grid Interactive Systems) Regulation, 2025 Regulation No. 1 of 2025 and any modification/ amendment to the regulation from time to time.

#### **4 Access and Disconnection**

- 4.1** The DISCOM's personnel may enter the Eligible Consumer's premises to inspect the Eligible Consumer's protective devices and read or test the meter at any time.
- 4.2** The DISCOM shall have the right to disconnect the Rooftop Solar PV System of an eligible consumer from its system at any time on the following situations / conditions:
- (i) Emergencies or maintenance requirement of DISCOM's electric system;
  - (ii) Hazardous conditions existing on the DISCOM's system due to operation of the Rooftop Solar PV System or the protective equipment, as determined by the DISCOM /TRANSCO / State Load Dispatch Centre (SLDC).
  - (iii) Adverse electrical effects, such as power quality problems, on the electrical equipment of other consumers of the DISCOM caused by the Rooftop Solar PV System as determined by the DISCOM.

#### **5. Clearances and Approvals:**

- 5.1** The Solar power produced shall be injected in to the grid of DISCOM only after obtaining prior approval from competent authority of DISCOM and meeting all the requirements of departmental standards, viz., protection switchgear, metering, feasibility approval etc.
- 5.2** The Eligible Consumer shall not commence parallel operation of the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering facility until the Eligible Consumer has received approval to operate from the competent authority of DISCOM.
- 5.3** An eligible consumer/prosumer intending to install a Rooftop Solar PV System having the capacity in excess of 56 kWp shall insure the Rooftop Solar PV system and obtain the certificate from the Chief Electrical Inspector to the Government (CEIG), who shall test and certify the safety and protection within Fifteen (15) working days from the date of receipt of the information. Provided that the Solar PV System having capacity up to 56 kWp shall be inspected, tested and self-certified by the eligible consumer with regard to the safety and protection.

#### **6. Date of enforceability of the Agreement:**

This agreement will be in a force for a period of 25 years from the date of connection of the Rooftop Solar PV system with the Grid, after meeting all the requirements by the Eligible Consumer under the conditions of this Agreement and in accordance with the Regulation No.1 of 2025 and its future amendments, if any.

#### **7. Settlement of energy charges**

##### **7.1 Net Metering:**

The energy exported by the Rooftop solar PV system shall be offset against the energy consumption of the prosumer from the Distribution Licensee in the following manner:

- a.** If the quantum of electricity units exported exceeds the quantum imported during the Billing Period, the excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application; Provided that the settlement rate as mentioned above shall be notified by the Commission from time to time every year. Provided that if the quantum of electricity exported exceeds the quantum imported during the Billing Period, the eligible consumer shall get a monthly minimum bill as notified by the Commission from time to time in the Retail Supply Tariff order.
- b.** If the quantum of electricity units imported by the prosumer during any Billing Period exceeds the quantum of electricity units exported, the Distribution Licensee shall raise its invoice for the electricity consumption after adjusting the credited units: Provided that in case, where the prosumer is under HT category, the electricity consumption in any time block (e.g., peak hours, off-peak hours, etc.) shall be first compensated with the electricity exported in the same time block. Any cumulative excess exported electricity over and above the consumption in any other time block in a billing period shall be accounted as if the excess exported electricity occurred during the off peak time block.

Provided further that the imported units shall satisfy the minimum charges based on consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for minimum charges based on consumption, in Retail Supply Tariff order shall be applicable.

## **7.2 Group Net Metering:**

The Distribution Licensee shall undertake meter reading of the Solar Generation Meter of parent consumer and the Consumer Meters for parent consumer and all participating connections, according to the regular billing period.

The energy exported by the Rooftop solar PV system under GNM arrangement shall be offset against the energy consumption of the prosumer and participating connections of the same prosumer from the Distribution Licensee in the following manner:

- a. The electricity consumption of parent consumer and each participating connections shall be first adjusted with the electricity allocated to parent consumer and participating connections in the same billing period in the priority and ratio provided in the GNM Agreement. If the quantum of electricity units imported by the parent consumer / participating connections during any Billing Period exceeds the quantum of electricity units allocated, the Distribution Licensee shall raise its invoice for the net electricity consumption.
- b. In case, where the parent consumer/ participating connections is under HT Category, the electricity consumption of the parent consumer/ participating connections in any time block (e.g., peak hours, off-peak hours, normal hours etc.) shall be first compensated with the electricity allocated in the same time block in the same billing cycle. Any cumulative excess allocation over and above the consumption in the above time blocks in a billing period shall be accounted in the same billing period as if the excess allocation has occurred during the off-peak time block.
- c. In case the quantum of electricity units allocated to the parent consumer/ participating connection(s) exceeds the quantum imported by the parent consumer/ participating connection(s) during the same Billing Period the excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TG Discoms under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDiscoms under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application.  
Provided also that the net imported units/consumption of parent consumer and participating connections shall satisfy the Minimum Charges based on Consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for minimum energy charges criteria or Minimum Charges based on Consumption, as the case may be, in Retail Supply Tariff order shall be applicable.
- d. In case a Rooftop Solar PV System whether self-owned or leased by a Third Party Owner, is installed on prosumer premises under Group Net Metering arrangement, prosumer/ parent consumer and participating connection(s) shall be exempted from banking charges, cross subsidy surcharge and additional surcharge. Wheeling charges shall be applicable only on participating connections(s) as per the voltage level of the participating connection(s). Wheeling losses shall be applicable only on participating connection(s). Provided that Wheeling charges (Rs /kVA/month) and Wheeling losses are to be levied as per terms and conditions approved by the Commission from time to time in the wheeling Tariff order.
- e. The parent consumer shall have the option to change the share of credit of electricity from Rooftop solar PV system among its participating connections and also addition or deletion of participating connections indicated under the group net metering agreement once in the financial year with advance notice of 6 months.

Where any participating connection is disconnected due to any reason under any law for the time being in force, the unadjusted amounts of that connection shall be settled by the distribution licensee at the end of the Financial Year.

### **7.3 Gross Metering Arrangement:**

- a. The Distribution Licensee shall undertake meter reading of both, the Solar Generation Meter and the Consumer Meter, for all prosumers under Gross Metering Arrangement, according to the regular billing period.
- b. The Distribution Licensee shall purchase entire power generated from the Rooftop solar PV system at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered.

### **7.4 Virtual Net Metering Arrangement**

The Distribution Licensee shall undertake meter reading of the Solar Generation Meter, the Prosumer/ parent consumer and all the participating Consumers of the Parent Consumer, according to the regular billing period.

The energy exported by the Rooftop solar PV system under VNM arrangement shall be offset against the energy consumption of the participating consumers from the Distribution Licensee in the following manner:

- a. The electricity consumption of each participating consumer shall be first adjusted with the electricity exported by the Rooftop solar PV system in the same billing period of the participating consumer in the priority and ratio provided in the VNM Agreement. Any surplus generation/ export over consumption in a billing period shall be accounted in the same billing period as if the surplus generation/energy export has occurred during the off-peak time block for HT consumers and any time block for LT consumers.
- b. The quantum of electricity units exported and allocated to the participating consumer exceeds the quantum imported by the participating consumer during the same Billing Period, such excess quantum of electricity units shall be settled at the rate equal to that of lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act, in the preceding Financial Year. In case no such rate exists in the preceding financial year, the lowest tariff rate as per solar PPAs/PSAs/PUAs entered by TGDIs under Section 63 of the Electricity Act in the latest previous Financial Year shall be considered. The amount so arrived shall be either adjusted in the next month electricity bill or deposited in the bank account of the eligible consumer/prosumer furnished to the licensee at the time of filing of the application.
- c. Provided that the imported units shall satisfy the Minimum Charges based on Consumption, of the Retail Supply Tariff order for the respective category of consumer, else charges determined for minimum energy charges criteria or Minimum Charges based on consumption, as the case may be, in Retail Supply Tariff order shall be applicable.
- d. If the quantum of electricity units imported by the participating consumer during any Billing Period exceeds the quantum of electricity units wheeled from Solar Generator, the Distribution Licensee shall raise its invoice for the electricity consumption after adjusting the credited units to participating consumer.
- e. In case a Rooftop Solar PV System whether self-owned or leased by a ThirdParty Owner, is installed on prosumer premises under Virtual Net Metering, participating consumer(s) shall be exempted from banking charges. Cross subsidy surcharge and additional surcharge shall be applicable only on participating consumer(s) as per the provisions of TGERC Terms and Conditions of Open Access, Regulation 2024. Wheeling charges shall be applicable only on participating consumer(s) as per voltage level of the participating consumer(s). Wheeling losses shall be applicable only on participating consumer(s). Provided that Wheeling charges (Rs /kVA/month) and Wheeling losses are to be levied as per terms and conditions approved by the Commission from time to time in the wheeling Tariff order.
- f. The parent consumer shall have the option to change the share of credit of electricity from Rooftop solar PV system among its participating consumers and also addition or deletion of participating consumers under intimation to existing and added participating consumers indicated under the virtual net metering agreement once in the financial year with advance notice of 6 months.

Where the service connection of prosumer/ parent consumer and/or any participating consumer is disconnected due to any reason under any law for the time being in force, the unadjusted units/ remaining credit of that prosumer/ consumer shall be paid by the distribution licensee at the end of the settlement period.

**8. Metering Arrangement**

The installation of bi-directional smart meters, wherever applicable, shall be carried out as per the departmental procedures in vogue with prior permission of DISCOMs. The Eligible Consumer shall bear the entire cost of bi-directional smart meters as per Clause 10 of TGERC (Net Metering Rooftop Solar PV Grid Interactive System) Regulation No. 01 of 2025 and any modification/ amendment to the regulation from time to time.

**9. Standards for Solar panels**

9.1 The Solar PV panels proposed to be installed shall meet the requirements of Indian as well as IEC standards and also to follow power quality measures as per International or Indian standards and/or other such measures provided in Clause 7 of TGERC (Net Metering Rooftop Solar PV Grid Interactive System) Regulation No. 01 of 2025 and any modification/ amendment to the regulation from time to time. Further, the documentary evidence proving the prescribed standards has to be furnished by Eligible Consumer to the competent authority of DISCOM before commencing the plant into operation.

9.2 The DISCOM on inspection at the time of according of permission to install the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering arrangement or at any time thereafter, finds that, the eligible consumer has installed equipment not conforming to the standards published by the International Electro-technical Commission (IEC) or Bureau of Indian Standards (BIS) as a part of the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering arrangement in the consumer's premises, the vendor of the equipment shall be blacklisted.

9.3 Further, the DISCOM reserves the right to withdraw the permission to the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering arrangement and cancel the Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering Connection Agreement with the eligible consumer after giving an opportunity in writing.

9.4 The eligible consumer shall install any additional equipment or additional Solar panels after obtaining prior permission in writing from the Distribution Licensee, failing which, the Distribution Licensee may cancel the connection Agreement after giving an opportunity in writing.

**10. Interruption or Reduction of delivery**

The DISCOM shall not be obligated to accept and may require Eligible Consumer to interrupt or reduce deliveries when necessary in order to construct, install, repair, replace, remove, investigate, or inspect any of its equipment or part of its system; or if it reasonably determines that curtailment, interruption, or reduction is necessary because of emergencies, forced outages or compliance with prudent electrical practices. Whenever possible, the DISCOM shall give the Eligible Consumer reasonable notice of the possibility that interruption or reduction of deliveries may be required.

**11. Obligation of Consumer to pay all charges levied by DISCOM**

a. The Eligible Consumer shall abide by the rules and shall pay the Maximum Demand Charges, energy charges, surcharges and other charges, if any, to the DISCOM in accordance with the notified Tariff besides the applicability of the General Terms and Conditions of Supply prescribed by the TGERC from time to time.

b. The Eligible Consumer shall pay the minimum charges every month as prescribed in retail supply Tariff and as per General Terms and Conditions of supply, even if no electricity is consumed for any reason whatsoever and also if the charges for electricity actually consumed are less than the minimum charges.

c. The quantum of electricity units exported by the consumer/prosumer shall be measured in kWh only in case applicable tariff provides for energy billing in kVAh basis and if during the billing period, the eligible consumer delivers surplus electricity to a distribution licensee for off-setting the quantum of electricity, the power factor shall be assumed equal to unity.

d. The electricity supplied by the Distribution Licensee during the billing period shall be billed as per the tariff schedule for respective category of consumer and the terms and conditions

of the Retail Supply Tariff Order read with provisions under the Electricity Supply Code Regulation as amended from time to time:

- e. Provided that if the net bill amount for a billing period is payable by the parent consumer and other participating connections, then the same shall be paid by them within the due date of the bill.
- f. Provided further that if the net bill amount for a billing period is payable by Distribution Licensee, then the same shall be settled at the end of the settlement period. No interest shall be payable by Distribution Licensee on such credited carried forward amount.
- g. The Distribution Licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government on the net billed units.
- h. The prosumer/participating connection(s)/participating consumer(s) whose entitlement as a consumer of the Licensees is ceased or he is not settling his dues to the licensee, shall not be entitled to receive due amount of the adjustment/credit till the time past dues and other charges as applicable are paid.

**12. Theft of electricity or unauthorised use of electricity**

Eligible Consumer, found indulging in theft of electricity or unauthorized use of electricity shall pay the penal/additional charges as may be levied by the DISCOM besides disconnection of supply as per the provisions of IE Act 2003 and General Terms and Conditions of supply.

**13. Dispute Resolution**

In case of any dispute in billing it shall be settled under the provisions of Telangana Electricity Regulatory Commission (Establishment of Mechanism for Redressal of Grievances of the Consumers) Regulation, 2015 as amended from time to time.

Signature of Eligible Consumer

Date:

Competent Authority from Discom  
(with stamp)

Date:

Witness

Signature:  
Name & Address:  
Date:

Witness

Signature:  
Name & Address:  
Date:

## Undertaking for GNM

Undertaking for incorporating the connections of parent consumer in the priority list of settlement under Group Net Metering (GNM)

- i. I, \_\_\_\_\_ Son/Daughter of \_\_\_\_\_ Resident of \_\_\_\_\_ (hereinafter referred to as "GNM parent consumer", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under:
- a. Participating connections given in the application form are other connections of this parent consumer.
- b. GNM participating connection is made aware that a Group Net Metering connection has been applied by "GNM Applicant" at the premises situated at \_\_\_\_\_.
- c. GNM participating connection is made aware that its service connection number has been given by the GNM Applicant for availing of benefits under GNM Connection.
- d. GNM participating connection would like to avail the benefits associated with the GNM Connection issued to GNM Applicant and as such is submitting this instant undertaking confirming the terms herein.
- e. On behalf of GNM participating connections it is confirmed and understood that this present undertaking shall form part of the GNM Application Form submitted by the GNM Applicant and shall be construed in addition to the declarations and undertakings provided therein.

**That on behalf of the GNM participating connections, the authorized signatory for parent consumer hereby agrees and undertakes:-**

- i. That GNM participating connections is a consumer of \_\_\_\_\_ Division of \_\_\_\_\_ Discom with service connection number \_\_\_\_\_ and agrees to avail facility of group net metering from Rooftop Solar PV System installed by the GNM Applicant at \_\_\_\_\_.
- ii. There is no objection if participating connection number is added to the benefits of GNM Connection issued to GNM Applicant in a manner as requested/agreed by GNM Applicant in the GNM Application.
- iii. There is no objection to the benefit credited, calculation of billing units to participating connection under GNM connection as per the provisions of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as notified by the Telangana Electricity Regulatory Commission as amended from time to time.
- iv. Revision of calculation of units or the issues associated with such billing units by DISCOM in consideration of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as amended from time to time or any other issues related to are hereby agreed and no claim shall be raised by GNM participating connections against (concerned Discom) in this regard.
- v. GNM Applicant has authority for inclusion of GNM participating connection to avail the benefits of Group Net Metering and also regarding change in priority sequence and share and no claim in this regard shall be raised by the participating connection.
- vi. That DISCOM is hereby indemnified from all law suits/claims/action/liabilities associated with the inclusion/dropping of GNM participating connection from the benefits of Group Net Metering.
- vii. Necessary document and permissions in respect of GNM participating connection shall be either deposited with DISCOM or uploaded on web portal as and when demanded by DISCOM.
- viii. Necessary permissions from the concerned authorities and shall be obtained for the participating connection and submitted with DISCOM, as notified by DISCOM from time to time.
- ix. In case of violation of the terms as stated in this undertaking and other terms as agreed by him/her, DISCOM shall have full rights to drop GNM participating connection from availing the benefits of Group Net Metering.

**Name and Service Connection Number for GNM participating connection:**

**Signature of parent consumer:**

**VERIFICATION:**

Verified at \_\_\_\_\_ that the contents of the above self-declaration are true and correct to the best of my knowledge and belief. This is to declare that no word and/or any statement has been amended/alterd/reframed in connection agreement as provided by \_\_\_\_\_ DISCOM for the needful process of Group Net Metering (GNM) Application.

**Name and Service Connection Number for GNM participating connection:**

**Signature of parent consumer:**

## **Undertaking for VNM**

### **Undertaking for incorporating consumers connections in the priority list of settlement under Virtual Net Metering (VNM)**

- i. I, \_\_\_\_\_ Son/Daughter of \_\_\_\_\_ Resident of \_\_\_\_\_ (hereinafter referred to as "VNM Beneficiary", which term shall mean and include executors, administrators, heirs, successors and assigns), do hereby swear and declare as under
- ii. VNM Beneficiary is aware that a Virtual Net metering connection has been applied by "VNM Applicant" in the premises situated at \_\_\_\_\_.
- iii. VNM Beneficiary is made aware that a Name/Service connection No. of "VNM Beneficiary" has been given by the VNM Applicant for availing of benefits under VNM connection.
- iv. VNM Beneficiary would like to avail the benefits associated with the VNM Connection issued to VNM Applicant as such is submitting this instant undertaking confirming the terms herein.
- v. VNM Beneficiary confirms and understands that this present Undertaking shall form part of the VNM application Form submitted by the VNM Applicant and shall be construed in addition to the declarations and Undertakings provided therein.

#### **That the VNM Beneficiary hereby agree and Undertake: -**

- i. That the VNM Beneficiary is a consumer of \_\_\_\_\_ Division of \_\_\_\_\_ Discom with service connection number \_\_\_\_\_ and agrees to avail facility of Virtual net metering from Rooftop Solar PV System installed by the VNM Applicant at \_\_\_\_\_.
- ii. That the VNM Beneficiary has no objection if his service connection number is added to the benefits of VNM Connection issued to VNM Applicant in a manner as requested/agreed by VNM Applicant in the VNM Application.
- iii. That the VNM Beneficiary do hereby agree and undertake that it shall have no objection for the benefit credited, calculation of billing units under VNM connection as per the provision of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system), 2025 as notified by the Telangana Electricity Regulatory Commission as amended from time to time.
- iv. That the VNM Beneficiary do hereby agree and undertake for calculation of units or the issues associated with same billing units may be revised by DISCOM in consideration of (Regulation for connectivity with Grid and sale of Electricity from Rooftop solar PV system ), 2025 as amended from time to time or any other issues and the same shall not give any rise to any claim from VNM Beneficiary against (concerned Discom).
- v. That the VNM Beneficiary has given its consent to VNM Applicant for inclusion of VNM Beneficiary for the benefits of Virtual Net Metering and understand that the nomination of VNM Beneficiary is at the discretion of VNM Applicant and the VNM Applicant , at all times , shall be free to change the sequence of VNM Beneficiary and/or drop VNM Beneficiary from the benefits without any clear intimation and the same shall not give any rise to any claim from VNM Beneficiary against Discom.
- vi. That the VNM Beneficiary shall at all time keep DISCOM indemnified from all law suits/claims/action/liabilities associated with the inclusion/dropping of VNM Beneficiary from the benefits of Virtual Net Metering.
- vii. That the VNM Beneficiary undertakes to deposit the Necessary document and permissions with DISCOM as and when demanded by DISCOM.
- viii. That the VNM Beneficiary shall take necessary permissions from the concerned authorities and shall submit the same with DISCOM, as notified by DISCOM from time to time. ix. The VNM Beneficiary confirms and agrees that in case of violation of the terms as stated in this undertaking and other terms as agreed by him/her, DISCOM shall be having full right to drop VNM Beneficiary from availing the benefits of Virtual Net Metering.

**Name of VNM Beneficiary:**

**Service Connection Number :**

**Signature of VNM Beneficiary:**

**VERIFICATION:**

Verified at \_\_\_\_\_ that the contents of the above self declaration are true and correct to the best of my knowledge and belief. This is to declare that no word and/or any statement has been amended/alterd/reframed in connection agreement as provided by \_\_\_\_\_ DISCOM for the needful process of Virtual Net Metering (VNM) Application.

**Name of VNM Beneficiary:**

**Service Connection Number :**

**Signature of VNM Beneficiary:**

**Work Completion Report for Synchronization of Rooftop Solar PV System  
(To be submitted by Eligible Consumer/Applicant)**

<b>A</b>	<b>Applicant/Consumer Details</b>	
1	Net Meter Registration Number	
2	Registration Date	
3	Name of the applicant	
4	Service Number	
5	Category	
6	Load in kW	
<b>B</b>	<b>Vendor of the Rooftop Solar PV System Details:</b>	
1	Name of Vendor	
	<b>Address:</b>	
2	Door.No.	
3	Street	
4	City/Village	
5	Mandal	
6	Pin Code	
7	Phone	
8	Mobile	
9	Email ID	
<b>C</b>	<b>Solar PV Module Details:</b>	
1	Make	
2	Serial number	
3	Type of module	
4	Capacity of each module	
5	Number of modules	
6	Total capacity	
<b>D</b>	<b>Grid Tie Inverter / Connector</b>	
1	Make	
2	Serial number	
3	Capacity	
4	Input voltage	
5	Output voltage	
6	If grid supply fails, no return supply to the grid (Yes or No)	
<b>E</b>	<b>Details of protective system available</b> (Commission shall be done only on availability of the above)	
<b>F</b>	CEIG Approval Ref Number (Rooftop Solar PV System having the capacity in excess of 75 kW)	

Encl.:- Connected SPV generator Single line diagram, CEIG Approval copy

**Vendor Signature(with Stamp)**

**Eligible Consumer  
Signature**

Annexure- 9

**Illustration for Energy Accounting and Settlement under Net Metering, Gross Metering, Group Net Metering and Virtual Net Metering Arrangements**

**Net Metering Arrangement**

<b>Prosumer where import of electricity from grid is more than export of electricity to grid from Rooftop Solar PV system</b>		<b>15kW</b>
<b>S.No</b>	<b>Particulars</b>	<b>units</b>
1	Quantum of electricity injected by Roof top Solar PV System of the prosumer to the grid in the billing period	1000
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	1200
3	Quantum of Net billed electricity , for which payment is to be made by the prosumer	200
4	Units to be settled to the prosumer at settlement price	0
<b>Prosumer where import of electricity from grid is less than export of electricity to grid from Rooftop Solar PV system</b>		<b>15kW</b>
<b>S.No</b>	<b>Particulars</b>	<b>units</b>
1	Quantum of electricity injected by Roof top Solar PV System of the prosumer to the grid in the billing period	1000
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	700
3	Quantum of Net billed electricity , for which payment is to be made by the prosumer	0
4	Units to be settled to the prosumer at settlement price	300

**Gross Metering Arrangement**

<b>Prosumer</b>		<b>15kW</b>
<b>S.No</b>	<b>Particulars</b>	<b>units</b>
1	Quantum of electricity injected by Roof top Solar PV System of the prosumer to the grid in the billing period	1000
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	1200
3	Quantum of Net billed electricity , for which payment is to be made by the prosumer	1200
4	Units to be settled to the prosumer at settlement price	1000

**Group Net Metering Arrangement**

<b>Parent consumer and participating connections at LT Voltage level</b>			
<b>Domestic category (15kW)</b>			
<b>Parent Consumer:</b>			
<b>S.No</b>	<b>Particulars</b>	<b>units</b>	<b>Allocation %</b>
1	Quantum of electricity generated by Roof top Solar PV System of the prosumer and injected in to the grid in the billing period	1000	
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	700	
3	Energy available for allocating to parent consumer and participating connections	1000	
4	Energy allocation to prosumer as per the priority and ratio declared by parent consumer	400	40%
5	Quantum gross electricity allocated to participating connection-1	250	25%
6	Quantum gross electricity allocated to participating connection-2	200	20%
7	Quantum gross electricity allocated to participating connection-3	150	15%
8	Quantum of Net billed electricity, for which payment is to be made by the prosumer	300	(2)-(4) i.e., import > export
<b>Participating connection-1:</b>			
<b>S.No</b>	<b>Particulars</b>	<b>units</b>	<b>Remarks</b>
1	Quantum of gross electricity allocated as per GNM agreement in the billing period to the participating connection-1	250	
2	Distribution losses applicable at LT Voltage	4.65%	
3	Quantum of net electricity allocated to the participating connection-1 during the billing period after netting off the applicable losses at LT Voltage	238.375	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating connection-1 in the billing period	600	
5	Quantum of Net billed electricity, for which payment is to be made by the participating connection-1	361.625	(4)-(3)

<b>Parent consumer at 11 kV and participating connections at 33 kV and LT voltage level.</b>			
		<b>CMD</b>	<b>Solar plant capacity</b>
<b>Parent Consumer:</b>		<b>100 kVA</b>	<b>80 kVA</b>
<b>S.No</b>	<b>Particulars</b>	<b>units</b>	<b>Allocation %</b>
1	Quantum of electricity generated by Roof top Solar PV System of the prosumer and injected in to the grid in the billing period	5000	
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	3000	
3	Energy available for allocating to parent consumer and participating connections	5000	

4	Energy allocation to prosumer as per the priority and ratio declared by parent consumer	2000	40%
5	Quantum gross electricity allocated to participating connection-1	1250	25%
6	Quantum gross electricity allocated to participating connection-2	1000	20%
7	Quantum gross electricity allocated to participating connection-3	750	15%
8	Quantum of Net billed electricity, for which payment is to be made by the prosumer	1000	(2)-(4) i.e., import > export

**Participating connection-1 at 33 kV and injection point parent consumer at 11 kV, both connected at TGSPDCL area:**

S.No	Particulars	units	Remarks
1	Quantum of gross electricity allocated as per GNM agreement in the billing period to the participating connection-1	1250	
2	Distribution losses applicable	4.04% at 11 KV and 3.16% at 33 KV (Cumulative loss= 7.0723%)	
3	Quantum of net electricity allocated to the participating connection-1 during the billing period after netting off the applicable losses.	1161.60	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating connection-1 in the billing period	2000	
5	Quantum of Net billed electricity, for which payment is to be made by the participating connection-1	838.40	(4)-(3)

**Participating connection-2 at LT and injection point parent consumer at 11 kV, both connected at TGSPDCL area:**

1	Quantum of gross electricity allocated as per GNM agreement in the billing period to the participating connection-2	1000	
2	Distribution losses applicable	4.04% at 11 KV and 4.65% at LT (Cumulative loss= 8.502%)	
3	Quantum of net electricity allocated to the participating connection-2 during the billing period after netting off the applicable losses.	914.98	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating connection-2 in the billing period	1500	
5	Quantum of Net billed electricity, for which payment is to be made by the participating connection-2	585.0214	(4)-(3)

**Virtual Net Metering Arrangement**

Parent consumer and participating consumer at LT Voltage level			
Domestic category (15kW)			
Parent Consumer:			
S.No	Particulars	units	Allocation %

1	Quantum of electricity injected by Roof top Solar PV System of the prosumer to the grid in the billing period	1000	
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	700	
3	Energy available for allocating to participating consumers	1000	
4	Energy allocation to prosumer as per the priority and ratio declared by parent consumer		
5	Quantum electricity allocated to participating consumer-1	400	40%
6	Quantum electricity allocated to participating consumer-2	350	35%
7	Quantum electricity allocated to participating consumer-3	250	25%
8	Quantum of Net billed electricity , for which payment is to be made by the prosumer	700	(2)

**Participating connection-1:**

S.No	Particulars	units	Remarks
1	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-1	400	
2	Distribution losses applicable at LT Voltage	4.65%	
3	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-1 after netting of the applicable losses at LT Voltage	381.4	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating consumer in the billing period	600	
5	Quantum of Net billed electricity , for which payment is to be made by the participating consumer	218.6	(4)-(3)

**Parent consumer with HT I category at 11 kV and participating consumers are at 33 kV and LT Voltage**

		CMD	Solar plant capacity
<b>Parent Consumer:</b>		<b>100 kVA</b>	<b>80 kVA</b>
S.No	Particulars	units	Allocation %
1	Quantum of electricity injected by Roof top Solar PV System of the prosumer to the grid in the billing period	5000	
2	Quantum of electricity supplied by Distribution Licensee to the prosumer in the billing period	3000	
3	Energy available for allocating to participating consumers	5000	
4	Energy allocation to prosumer as per the priority and ratio declared by parent consumer		
5	Quantum electricity allocated to participating consumer-1	2000	40%
6	Quantum electricity allocated to participating consumer-2	1750	35%
7	Quantum electricity allocated to participating consumer-3	1250	25%
8	Quantum of Net billed electricity , for which payment is to be made by the prosumer	3000	(2)

**Participating consumer-1 at 33 kV and injection point parent consumer at 11 kV, both connected at TGSPDCL area:**

S.No	Particulars	units	Remarks
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1	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-1	2000	
2	Distribution losses applicable	4.04% at 11 KV and 3.16% at 33 KV (Cumulative loss= 7.0723%)	
3	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-1 after netting of the applicable losses	1859.54	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating consumer-1 in the billing period	2000	
5	Quantum of Net billed electricity , for which payment is to be made by the participating consumer-1	140.46	(4)-(3)
<b>Participating consumer-2 at LT and injection point parent consumer at 11 kV, both connected at TGSPDCL area:</b>			
1	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-2	1750	
2	Distribution losses applicable	4.04% at 11 KV and 4.65% at LT (Cumulative loss= 8.502%)	
3	Quantum of electricity allocated by parent consumer under GNM by Roof top Solar PV System of the prosumer to the grid in the billing period to the participating consumer-2 after netting of the applicable losses	1601.215	(1)*(1-(2)/100)
4	Quantum of electricity supplied by Distribution Licensee to the participating consumer-2 in the billing period	1800	
5	Quantum of Net billed electricity , for which payment is to be made by the participating consumer-2	198.785	

**TGSPDCL -Wheeling Losses:**

Voltage Level	Losses for FY: 2025-26
33 kV	3.16%
11 kV	4.04%
LT	4.65%

**Note:** Banking charges, Wheeling charges, Cross subsidy surcharge and Additional surcharge are applicable as per relevant clauses of this regulation.