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NOTIFICATIONS BY HEADS OF DEPARTMENTS Etc.,

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PUBLIC WORKS NOTIFICATION

Telangana Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive Systems) Regulation, 2025
Regulation No. 1 of 2025

No: TGERC/Secy/D.No:828/2025 **Dt: 15.11.2025**

Preamble:

The Commission in exercise of powers conferred under Sections 61,66,86(1)(e) and 181 of the Electricity Act, 2003 had earlier notified the Regulation No. 6 of 2016 being the Regulation for connectivity with the Grid and sale of electricity from the rooftop Solar Photovoltaic System, Regulation, 2016 in the Telangana Gazette dated 23.11.2016. The amendment to the principal regulation was notified on 02.01.2021 vide Regulation No.01 of 2021.

Based on the requests of several stakeholders and the Licensees, the Commission recognized the need for amendment to the regulation consistent with the provisions of the Act. After previous publication, the Telangana Electricity Regulatory Commission hereby makes the following Regulation.

Accordingly, in exercise of powers conferred on it under Section 61, 66, 86 (1) (e) read with Section 181 of the Electricity Act, 2003 (Central Act No. 36 of 2003) and all powers enabling it in that behalf, the Telangana Electricity Regulatory Commission hereby makes this Regulation by repealing the Regulation No. 6 of 2016 (Net metering Rooftop Solar PV Grid Interactive Systems) and its amendments:

1 Short title, Extent and Commencement

1.1 The Regulation shall be called the Telangana Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive Systems) Regulation, 2025.

1.2 The Regulation shall extend to the whole of State of Telangana.

1.3 This Regulation shall come into force from the date of publication in the Telangana Gazette.

2 Definitions

2.1 In these Regulations, unless the context otherwise requires,

a) "Act" means the Electricity Act, 2003 (No. 36 of 2003);

b) "Agreement" means a connection agreement entered into by the Distribution Licensee and the prosumer or consumer;

c) "Area of Distribution" means or "Area of Supply" means the area stated in the Distribution Licensee within which a Distribution Licensee is authorized to operate and maintain a Distribution System for supplying electricity to the consumers in its / his area of supply;

Provided that area of supply in respect of a deemed/exempted licensee shall be the whole area of supply within which the deemed/exempted licensee is authorised to supply electricity under the Act.

d) "Billing Cycle or Billing period" means the period for which the regular electricity bills are prepared for different categories of consumers by the Distribution licensee as specified by the Commission;

e) "Category" means the category of consumer as defined in the Retail Supply Tariff Order.

f) "Commission" or "TGERC" means the Telangana Electricity Regulatory Commission constituted under the Act;

g) "Consumer" means a consumer as defined in the Act;

h) "Connected Load" expressed in Kilowatt (kW), Kilo Volt Ampere(kVA) or Horse Power (HP), refers to aggregate of the consumer's rated capacities of all the energy consuming devices or apparatus connected with the Distribution Licensees' service line in the consumer's premises as specified in the Agreement entered into between the Distribution Licensee and a consumer.

Explanation:

(A) In case of a consumer who availed supply under the Low Tension, the connected load and the contracted load are same.

(B) In case of a consumer who availed supply under the High Tension, the connected load and the contracted load are different.

"Contracted load" or "Sanctioned load" or "Contracted demand" means the maximum load in kilowatt (kW) or kilovolt ampere (kVA) or Horsepower (HP), as the case may be, agreed to be supplied by the Distribution Licensee or Deemed/exempted Licensee as mentioned in the agreement entered between such Licensee and the consumer;

i) "Distribution Licensee" means a person authorised by a Distribution Licence to operate and maintain a distribution system for supply or conveyance or wheeling of electricity to the consumers in his/its area of supply and shall include a Deemed/exempted Licensee;

j) "Electricity Supply Code" means the Telangana Electricity Regulatory Commission Regulation, (No.5 of 2004) and its amendments under Section 50 of the Act;

k) "Eligible Consumer" means a consumer of electricity in the area of supply of the distribution licensee or the deemed/exempted licensee, who intends to use a solar rooftop system in his premises, to offset all or part (in case of Net Metering arrangement and Group Net Metering arrangement) or no part (in case of Gross Metering arrangement and Virtual Net Metering arrangement), of his electricity requirements , given that such systems can be self-owned or installed by a third party in the consumer's premises subject to provisions of these Regulations;

l) "Financial Year" or "Year" means the period beginning from first day of April and ending with the thirty first day of the March of the next year;

m) "Gross Metering" means an arrangement under which total electricity generated from a Rooftop Solar PV System installed at prosumer's premises, is purchased by the Distribution Licensee at the discovered tariff as per the provisions laid down in these regulations and the Distribution Licensee raises the bills on the prosumer for his total consumption from the Distribution Licensee at the applicable Retail Supply Tariff, after giving credit for payment towards total electricity supplied to the Distribution Licensee by the prosumer;

n) Group Net Metering" or "GNM" means an arrangement whereby entire electrical energy generated / injected from a Rooftop Solar PV system installed on the premises of a prosumer/ parent consumer is exported to the grid from solar energy meter / gross meter(in compliance with clause 10.1 of this regulation) and the electricity exported is adjusted in service connections of parent consumer and participating connections of that of parent consumer of the same category located within the same Distribution Licensee's area of supply on mutually agreed terms. This arrangement is applicable only to LT-I (Domestic) and HT-VI (Townships and Residential Colonies) categories;

o) "Interconnection Point for Net Metering arrangement" means interface of Rooftop Solar PV System with the outgoing terminal of the meter / Distribution Licensee cut out switch gear in the premises of the prosumer for Net Metering;

Provided that, in case prosumer(s) is/are connected at the High Tension (HT) level, the "Interconnection Point" shall mean the interface of the Rooftop Solar PV System with the outgoing terminal of the Distribution Licensee's metering cubicle placed before such prosumer's apparatus;

p) "Interconnection Point for Gross Metering, Group Net metering and Virtual Net Metering arrangement" means the interface of the Rooftop Solar PV System with the incoming terminal of the meter in the premises of the prosumer:

Provided that, in case prosumer is connected at the High Tension (HT) level, the "Interconnection Point" shall mean the interface of the Rooftop Solar PV System with the incoming terminal of the Distribution Licensee's metering cubicle placed before such prosumer's apparatus;

q) "Invoice" means either a Regular Bill/Supplementary Bi11 or a Regular Invoice/ Supplementary Invoice raised by a distribution licensee;

r) "Net Metering" means an arrangement under which a Rooftop Solar PV System installed at a prosumer's premises and delivers surplus electricity, if any to the Distribution Licensee after setting off the quantum of electricity supplied by such Licensee to such prosumer during the applicable Billing Period;

s) "Net meter" means an appropriate energy meter which is capable of recording both import and export of electricity or a pair of energy meters one each for recording the import and export of electricity, as the case may be;

t) "Net Metering Arrangement" means an arrangement under which a Rooftop Solar PV System with Net Meter installed at a prosumer's premises delivers surplus electricity, if any, to the Distribution Licensee after setting off the quantum of electricity supplied by such Licensee during the applicable Billing Period

u) "Obligated Entity" means an entity required to fulfill the renewable purchase obligation (RPO) as specified by the Commission's Regulation governing such obligation (RPO Regulations).

v) "Parent Consumer" means the consumer in whose premises a grid interactive Rooftop Solar PV system has been installed for the purpose of virtual net metering of participating consumers or group net metering of participating connections in the same distribution licensee's area;

w) "Participating consumer" or "beneficiary" means pre-identified consumer, who has given an undertaking as per clause 6.2 of these regulations and who avails exported energy of a Grid Interactive Rooftop Solar PV system under a Virtual Net Metering arrangement;

x) "Participating Connections" means service connection of parent consumer under Group Net Metering arrangements as per application submitted in form given at Annexure-5.

y) "Premises" means and includes roof tops or elevated areas on the land, building or infrastructure or part or combination thereof in respect of which a separate meter or metering arrangements have been made by a Licensee for supply of electricity;

z) "Prosumer" means a person who consumes electricity from grid and can also inject electricity into the grid, using same point of supply, as applicable in case of net metering, group net metering, gross metering, and virtual net metering arrangement;

aa) "Rooftop Solar PV Power Plant" or "Rooftop Solar PV System" means the Solar Photo Voltaic Power Plant including a small solar system, installed on the rooftops or ground mounted or open land owned and operated on a consumer premises or operated by a third party owner on a consumer's premises that uses the sunlight for direct conversion into electricity through the photovoltaic technology;

ab) "Solar Generation Meter" means an energy meter installed in accordance with CEA (Installation and Operation of Meters) Regulations, 2006 as amended from time to time, used for measuring the energy generated/injected by Rooftop Solar PV System for the purpose of accounting and billing for gross metering, virtual net metering, net metering and group net metering arrangement and RPO compliance of distribution licensee, as the case may be;

ac) "Renewable Energy Certificate (REC)" means the certificate issued in accordance with the procedures specified by the Central Electricity Regulatory Commission;

ad) "Renewable Energy System" means the system to generate the electricity from such source(s) which are recognized as renewable energy source(s) by the Ministry of New & Renewable Energy (MNRE) or any agency notified by the Govt. of India or the Commission;

ae) "Solar Rooftop Connection Agreement" means an agreement entered into by a Distribution Licensee and Eligible Consumer/Prosumer for executing Net Metering/Gross Metering/Group Net Metering/Virtual net Metering arrangement;

af) "State Nodal Agency" means the Telangana Renewable Energy Development Corporation Limited (TGREDCO) or any other agency designated for the purpose of this Regulation;

ag) " Tariff Order" in respect of a Distribution licensee means the Retail Supply Tariff Order issued by the Commission for that licensee indicating the rates to be charged by the licensee to various categories of consumers for supply of electrical energy and services;

ah) "Third party owner" means a developer who is generating solar energy on a rooftop from the Rooftop solar PV system but does not own the rooftop but enters into a lease / commercial agreement with the rooftop owner. Where a consumer installs the rooftop solar PV system in his premises through a third-party owner and intends to avail of net metering arrangement, then,

only an eligible consumer shall enter into an agreement with the Distribution Licensee;

ai) "Settlement Period" "means the period of one billing month at the end of which Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering arrangement's settlement of the net credited units, between the Distribution Licensee and the prosumer takes place; and

aj) "Virtual Net Metering" or "VNM" means an arrangement whereby entire electrical energy generated/injected from a Rooftop Solar PV system installed on the premises of a prosumer/ parent consumer is exported to the grid from solar energy meter/ gross meter and the electricity exported is adjusted in service connections of more than one participating consumer of same category as that of parent consumer located within the same Distribution Licensee's area of supply on mutually agreed terms.

2.2 Interpretations

a. The Words and expressions used and not defined in this Regulation but defined in the Act, shall have the meanings assigned to them in the Act. Expressions used herein but not specifically defined in this Regulation or in the Act but defined under any regulations made by the Commission or under any law passed by a competent legislature and applicable to the electricity industry in the state; shall have the meaning assigned to them in such law.

b. In the interpretation of this Regulation, unless the context otherwise requires:
   i. words in the singular or plural term, as the case may be, shall also be deemed to include the plural or the singular term, respectively;
   ii. references herein to the Regulation shall be construed as a reference to this Regulation as amended or modified by the Commission from time to time in accordance with the applicable laws in force;

c. the headings are inserted for convenience and may not be taken into account for the purpose of interpretation of this Regulation;

d. References to the statutes, regulations or guidelines shall be construed as including all statutory provisions consolidating, amending or replacing such statutes, regulations or guidelines, referred to.

3 Scope and Application

3.1 This Regulation shall apply to a distribution licensee, an eligible consumer and a third-party owner of a Roof Top Solar PV System in the state of Telangana.

3.2 These Regulations would apply to all Rooftop solar PV Systems operating under:

a. Net Metering Arrangement
b. Group Net Metering Arrangement
c. Gross Metering Arrangement
d. Virtual Net Metering Arrangement

4 General Conditions of Net Metering, Group Net Metering, Gross Metering and Virtual Net Metering Arrangement:

4.1 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 non-discriminatory 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.

4.2 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.

4.3 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.

4.4 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.

4.5 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.

4.6 A prosumer having net metering arrangement will not be entitled for gross metering and virtual net metering arrangement under these Regulations.

4.7 A prosumer having gross metering arrangement will not be entitled for net metering, Group Net Metering and virtual net metering arrangement under these Regulations.

4.8 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.

4.9 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:
   a. 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.
   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 parent consumer and the participating connections, put together.

Provided that in case of reduction in contracted capacity of parent/participating connection due to deration loads and if the contracted capacity of all the parent and participating connections is less than the sanctioned solar rooftop capacity, the solar energy injected into the grid proportionate to the reduction in capacity shall be treated as inadvertent power.

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.

4.10 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.

4.11 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.

4.12 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 Clauses 4.15, 4.16 and 4.17 of this Regulation.

4.13 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.

4.14 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.

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 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.

4.20 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.

5 Capacity limits of Distribution Transformer level and Feeder level:

5.1 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;

Provided 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 11 kV 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 11 kV/33 kV feeder is connected, as the case may be;

5.2 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 within three months from the notification of this Regulation. The Distribution Licensee shall thereafter update the Distribution Transformer-wise, 11 kV feeder-wise and 33 kV feeder-wise capacity available and the cumulative capacity of the Rooftop Solar PV Systems installed under the above arrangements quarterly and provide the information on its website in the month following the closure of the relevant quarter.

6 Procedure for Application, Registration and approval by the Distribution Licensee:-

6.1 The prosumer 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-2 to Annexure-5 appended with the Regulation along with processing fee as specified below at the concerned office of the Distribution Licensee.

System size	Applicable fee per connection
For all LT consumers	Rs.2,500
For all HT consumers	Rs.15,000

6.2 In case of group net metering or virtual net metering arrangement an undertaking as per Annexure-6 or Annexure-8 respectively shall also has to be furnished for all the participating **connections/consumers** of group net metering and virtual net metering.

6.3 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.

6.4 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.

6.5 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.

6.6 The Distribution Licensee shall assess the feasibility of interconnection point and the relevant distribution transformer capacity and/ or relevant 11 kV / 33 kV 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 as per sub-para 6.4 of this regulation within Fifteen (15) working days from the date of receipt shall be deemed to have been approved.

Provided that the applications 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.

Provided also that during the time period from the feasibility study or the deemed acceptance till the completion of installation of solar photo voltaic systems, in case there is any requirement of upgradation of distribution infrastructure like augmentation of service line, distribution transformer capacity, and the like for installation of the required capacity of solar photo voltaic systems, the same shall be carried out by the Distribution Licensee or applicant as the case may be, in accordance with TGERC Licensees duty for Supply of Electricity on request Regulation (Regulation No.4 of 2013) and its subsequent amendments thereof.

Provided also that 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.

Provided that the 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.

6.7 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.

6.8 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.

Provided that if the sum as per sub-para 6.6 is 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.

6.9 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.

Provided 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.

6.10 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 as per this Regulation.

6.11 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.

6.12 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.

6.13 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 documents.

7 Interconnection with the Distribution Network/Grid Standards and Safety:

7.1 The Distribution Licensee shall ensure 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:

7.2 A 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.

7.3 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 sub-para 7.1.

7.4 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.

7.5 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.

7.6 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:

(A) DC Power Injection:
- IEC 61727, 2nd Ed. (2004)
- CEA's (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013.

(B) 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.

(C) Flicker:
- IEC 61000 series

(D) Power Factor:
- 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)

7.7 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.

7.8 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.

7.9 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) & IEC 62116, 2nd Ed. (2014-02) shall be followed to test the island prevention measure for the grid connected photovoltaic inverters.

7.10 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.

7.11 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 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.

7.12 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.

7.13 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.

7.14 After considering the maintenance and safety procedures the Distribution Licensee 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.

7.15 Prior to synchronization of the Rooftop Solar PV System for the first time with the distribution system of the licensee, the eligible consumer/prosumer and the licensee shall agree on the protection features and the control mechanism.

7.16 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.

8 Energy Accounting and Settlement: -

8.1 **Net Metering Arrangement**

8.1.1 The Distribution Licensee shall undertake meter reading of the bi-directional meter, for all prosumers, according to the regular billing period.

8.1.2 For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer:

a) Quantum of electricity injected by Rooftop solar PV system in the grid in the billing period, showing initial and final reading;

b) Quantum of electricity supplied by the Distribution Licensee in the billing period, showing initial and final reading;
c) Quantum of Net billed electricity;
d) The net quantum of electricity carried forward upto the date of this Regulation coming into force, shall be settled in the next month. and
e) Units used by the Distribution Licensee for RPO compliance.

8.1.3 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 TGDiscoms 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 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.

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 under clause 8.1.3 (b), 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.

8.1.4 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.

8.1.5 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.

8.1.6 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.

8.1.7 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.

8.1.8 An illustrative example for energy accounting and settlement under net metering arrangement is provided as Annexure-7.

8.2 **Group Net Metering Arrangement**

8.2.1 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.

8.2.2 For each Billing Period, the Distribution Licensee shall make the following information available on its bills to the parent consumer and its connections:

a) 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;
b) 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;
c) Quantum of energy deducted on account of losses from wheeled energy;
d) 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;
e) Quantum of net billed electricity; and
f) Units used by the Distribution Licensee for RPO compliance only in parent consumer's bill.

8.2.3 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 which is illustrated at Annexure-7. 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 TGDiscoms 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) 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.

8.2.4 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:

Provided that the Distribution Licensee shall also be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government.

8.2.5 The Distribution Licensee shall prepare a net bill comprising of the amount payable by parent consumers/Participating connections as per Regulation 8.2 for each billing period:

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.

8.2.6 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.

8.2.7 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.

8.2.8 The prosumer /participating connection of the same prosumer whose entitlement as a consumer of the licensees is ceased or he is not settling his dues with 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.

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

8.3 **Gross Metering Arrangement**

8.3.1 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.

8.3.2 For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer:

a) 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;

b) Quantum of electricity units consumed by the prosumer from licensee's system in the billing period, showing Initial and Final readings;

c) Credited amount towards payment of energy supplied to the distribution licensee, if any, in the billing period; and

d) Units from Solar generation used by the Distribution Licensee for RPO compliance.

8.3.3 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 TGDiscoms 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.

8.3.4 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:

Provided that the Distribution Licensee shall also be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government.

8.3.5 The Distribution Licensee shall prepare a net bill comprising of the amount payable by Distribution Licensee as per Clause 8.3.3 above and amount payable by prosumer as per Clause 8.3.4 above for each billing period:

Provided that if 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:

Provided 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.

8.3.6 The prosumer whose entitlement as a consumer of the licensees is ceased or he is not settling his dues with 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.

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

8.4 **Virtual Net Metering Arrangement**

8.4.1 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.

8.4.2 For each Billing Period, the Distribution Licensee shall make the following information available on its bill to the prosumer/parent consumer:

a) 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;
b) Quantum of electricity units consumed by the prosumer/consumer from licensee's system in the billing period, showing initial and final reading;
c) Units from Solar generation used by the Distribution Licensee for RPO compliance.

8.4.3 For each Billing Period, the Distribution Licensee shall make the following information available on its bills to the participating consumers:

a) 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;
b) 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
c) Quantum of energy deducted on account of losses from wheeled energy;

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d) 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;
e) Quantum of electricity supplied by the Distribution Licensee in the billing period, showing initial and final reading for each of the participating consumers; and
f) Quantum of Net billed electricity;

8.4.4 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 which is illustrated at Annexure-7. 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) 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 TGDiscoms 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 that the imported units under Clauses 8.4.2,8.4.3 and 8.4.4 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.

c) 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;
d) 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.

8.4.5 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:

Provided that the Distribution Licensee shall also be eligible to raise invoice for any other charges as allowed by the Commission and any tax/duty/cess imposed by the Government.

8.4.6 The Distribution Licensee shall prepare a net bill comprising of the amount payable by Distribution Licensee and amount payable by prosumer and participating consumers as per Clauses 8.4.2,8.4.3 and 8.4.4 above 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.

8.4.7 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.

8.4.8 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.

8.4.9 The consumer whose entitlement as a consumer of the licensees is ceased due to violation of regulations of the Commission or he is not settling his dues with the licensee he shall not be entitled to receive due amount of the adjustment/credit till the time, past dues and other charges as applicable are paid.

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

9 Renewable Power Purchase Obligation (RPPO):

9.1 The quantum of electricity consumed by an Eligible Consumer from the Rooftop Solar PV System under Net Metering, Group Net Metering arrangement, Gross Metering and Virtual Net Metering Arrangement shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the Distribution Licensee/Obligated Entity:

Provided that in cases Solar Generation meter is installed as per provisions of CEA (Installation and Operation of Meters) Regulations,2006 as amended from time to time, and such meter is read by Distribution Licensee,

the quantum of energy generated as a whole shall qualify towards compliance of RPO of Distribution Licensee/Obligated Entity

Provided further that in case the designated consumer is unable to provide generation data against Distributed renewable energy installations; the reported capacity shall be converted into Distributed renewable energy generation in terms of energy by a multiplier of 4-kilowatt hour per kilowatt per day (kWh/kW/day).

10 Metering Arrangement:

10.1 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.

10.2 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.

10.3 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 bi-directional 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, smart meters as per clause 10.1 of this regulation shall be installed for accounting and settlement of units exported to grid.

10.4 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.

10.5 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.

10.6 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.

10.7 For Net metering, the prosumer shall install, at his own cost, a solar generation meter confirming to CEA regulations at an appropriate location, to

measure the energy generated from the Rooftop Solar PV System, if he is an obligated entity and desires that such energy be counted towards meeting its RPO.

10.8 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.

10.9 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.

11 Compensation

11.1 In case of failure to meet the timelines prescribed under these Regulations, the Distribution Licensee shall be liable to pay compensation to the consumer as per the provisions of TSERC (Licensees' Standards of Performance) Regulation, 2016 as amended from time to time.

12 Applicability of incentives:-

12.1 All incentives or subsidy provided by the Government of India through the Ministry of New and Renewable Energy (MNRE) under the National Solar Mission or other schemes and any incentive or subsidy provided by the Government of Telangana state from time to time shall belong to the eligible consumer or on authorisation of the eligible consumer to the vendor of the Rooftop Solar PV system and can be claimed after installation of the Rooftop Solar PV system from the State Nodal Agency.

12.2 An eligible consumer or a vendor of the Rooftop Solar PV system on authorisation from an eligible consumer shall produce the latest bills for two months raised by a Distribution Licensee for the release of the subsidy or incentive. These bills shall be counter signed by the concerned Divisional Engineer of the Licensee and the District Manager of the State Nodal Agency. The Nodal Agency shall make the payment of subsidy or incentive within thirty (30) working days of the receipt of claim of subsidy / incentive.

13 Inspection by Distribution Licensee:-

13.1 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 confirming 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.

13.2 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.

14 Sharing of Clean Development Mechanism (CDM) benefits:-

14.1 The Eligible Consumer shall retain the entire proceeds of CDM benefits in the first year after the date of commercial operation of the generating station. In the second year, the share of the Distribution Licensees shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after, the proceeds shall be shared in equal proportion by the Eligible Consumer and the Distribution Licensees.

15 Restriction and Control Measures:-

15.1 In the event of the Distribution licensee being directed to impose restriction and control measures under section 23 of the Act, the distribution licensee shall not refuse injecting of solar power generated from a rooftop solar PV system installed by the residential and the government consumers.

16 Energy Accounting during Meter defects:-

16.1 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.

17 Solar Rooftop Connection Agreement: -

17.1 The Distribution Licensee, prosumer and consumers shall enter into a Net Metering, Group Net Metering, Gross Metering or Virtual Net Metering Solar Rooftop Connection Agreement, as the case may be, after approval of connectivity of the Rooftop solar PV system with the Distribution Network of the Distribution Licensee but before the start of actual generation from the System. A duly signed copy of the agreement shall be provided to the consumer/prosumer.

18 Issue of orders and practice directions:

18.1 Subject to the provisions of the Electricity Act, 2003 and this Regulation, the Commission may from time-to-time issue orders and practice directions in regard to the implementation of the Regulation and procedure to be followed

and various matters which the Commission has been empowered by this Regulation to specify or direct.

18.2 In particular, the Commission may authorize the Commission staff or any independent agency to conduct periodical checks, monitor the compliance of the Standards by the Licensees and report to the Commission.

19 Power to remove difficulties:

19.1 If any difficulty arises in giving effect to any of the provisions of this Regulation, the Commission may, by a general or special order, do or undertake or direct the Licensees to do or undertake things which in the opinion of the Commission are necessary or expedient for the purpose of removing the difficulties.

20 Power to relax

20.1 The Commission may by general or special order, for reasons to be recorded in writing and after giving an opportunity of hearing to the parties likely to be affected, may relax any of the provisions of this Regulation on its own motion or on an application made before it by an interested person.

21 Repeal and Savings

21.1 The Regulation No 06 of 2016 (Regulation for connectivity with the Grid and sale of electricity from the Roof- top Solar Photovoltaic System) and its amendments stand repealed on and from the date this regulation is published in the official gazette for the State of Telangana.

21.2 Anything done or any action taken or purported to have been done in pursuance of the provisions of the Regulation No.6 of 2016 and its amendments shall in so far as it is not inconsistent with the provisions of this Regulation, be deemed to have been done or taken under the corresponding provisions of this Regulation.

21.3 Any rights and liabilities arising out of the earlier Regulation shall be settled within the applicable provisions as may be appropriately relevant.

22 Power to Amend:

22.1 The Commission may at any time, vary, alter, modify, or amend any provisions of the Regulation.

(BY ORDER OF THE COMMISSION)

Hyderabad,
15-11-2025.

V. RAMCHANDER,
Commission Secretary
Telangana Electricity Regulatory Commission.

Annexure-1 (See Clause 5)

Distribution Transformer-wise capacity

Details(To be updated on Quarterly basis)

Details as on_____

Transformer Code	Location of Transformer	Name plate capacity (kVA)	Peak Load during last FY (kVA)	Peak load during last quarter(kVA)	Cumulative capacity of connected Rooftop Solar PV System (kW/kVA)

Annexure-2 [See Clause 6.1]
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 <=10 kW	Yes/No
	Whether applied capacity of Rooftop solar PV system <=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	

G-1025/4 *

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-3 [See Clause 6.1]

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 <=10 kW	Yes/No
	Whether applied capacity of Rooftop solar PV system <=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-4 [See Clause 6.1]

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 <=10 kW	Yes/No
	Whether applied capacity of Rooftop solar PV system <=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-5 [See Clause 6.1]

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 <=10 kW	Yes/No
	Whether applied capacity of Rooftop solar PV system <=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

G-1025/5*

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 _____

Annexure-6 [See Clause 6.2]

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/altered/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- 7 (See regulation 8.1 and (9))

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

Net Metering Arrangement

Prosumer where import of electricity from grid is more than export of electricity to grid from Rooftop Solar PV system		**15kW**
S.No	**Particulars**	**units**
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
Prosumer where import of electricity from grid is less than export of electricity to grid from Rooftop Solar PV system		**15kW**
S.No	**Particulars**	**units**
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

Prosumer		**15kW**
S.No	**Particulars**	**units**
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

Parent consumer and participating connections at LT Voltage level			
Domestic category (15kW)			
Parent Consumer:			
S.No	**Particulars**	**units**	**Allocation %**
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
Participating connection-1:			
S.No	**Particulars**	**units**	**Remarks**
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)

Parent consumer at 11 kV and participating connections at 33 kV and LT voltage level.			
		CMD	**Solar plant capacity**
Parent Consumer:		**100 kVA**	**80 kVA**
S.No	**Particulars**	**units**	**Allocation %**
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
Parent Consumer:		**100 kVA**	**80 kVA**
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

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

G-1025/6*

Annexure-8 [See Clause 6.2]

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/altered/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:

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