

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

PETITION NO. ____ OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003 READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING ROOF TOP SOLAR PV PLANTS UNDER PM SURYA GHAR MUFT BIJLI YOJANA

IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited,
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (N.G.).
2. Madhya Gujarat Vij Company Limited,
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007.
3. Paschim Gujarat Vij Company Limited,
Through its Managing Director
Paschim Gujarat Vij Seva Sadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 360004.
4. Dakshin Gujarat Vij Company Limited,
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006.

... Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. Torrent Power Limited-Distribution(Surat) [TPL-D(5)],
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.
3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)],
Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130



4. Torrent Power Limited - Distribution (Dholera),
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL),
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA),
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.
7. GIFT Power Company Limited,
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.,
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR),
Torrent Power Ltd
'Samanvay'600-Tapovan, Ambawadi,
Ahmedabad-380015.

PETITION

MOST RESPECTFULLY SHOWETH

1. The present Petition is being filed by the Petitioner, Uttar Gujarat Vij Company Limited seeking amendment of the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 (hereinafter “Net Metering Regulations 2016”). The amendment sought to relaxing the requirement of the agreement to be entered into by the consumers in respect of residential consumers installing Rooftop Solar PV Plants under PM Surya Ghar Muft Bijli Yojana.
2. The Net Metering Regulations, 2016 providing for the net metering arrangement recognizes the entering into an agreement between the Consumers and the Distribution Company. The Relevant provisions of the aforesaid Regulations are as under:



p) "Net Metering" means an arrangement under which Rooftop Solar PV System installed at Eligible Consumer's premises delivers surplus electricity, if any, to the Distribution Licensee after off-setting the electricity supplied by the distribution licensee to such Eligible Consumer during the applicable billing period.

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

...

3 Scope and Application

3.1 These Regulations shall apply to the distribution licensee and consumers of electricity of distribution licensee availing supply from it in its area of supply in the State of Gujarat, or consumers who are receiving electricity from its own generating source but situated in the distribution licensee area.

3.2 The Eligible Consumer may install the Rooftop Solar PV System under net metering arrangement which,

a) shall be within the permissible rated capacity as defined under these Regulations.

b) shall be located in the consumer's premises.

c) shall interconnect and operate safely in parallel with the distribution licensee network.

4 General Principles The distribution licensee shall provide the net metering arrangement to the eligible consumer, who intends to install grid connected Rooftop Solar PV System, in its area of supply on non-discriminatory and first come first served basis.

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6 Eligible Consumer and individual project capacity

6.1 In addition to the general eligibility defined in Regulation 2.1(l) of these Regulations, the Eligible Consumer for the Rooftop Solar PV System with net metering shall:

i. be a consumer of the local distribution licensee;

ii. own or be in legal possession of the premises including the rooftop or, terrace or building or infrastructure or open areas of the land or part or combination thereof on which the Solar PV System is proposed to be installed;

iii. connect the proposed Rooftop Solar PV System to the Distribution System of the Licensee;

iv. consume all of the electricity generated from the Rooftop Solar PV System at the same premises.

If the consumer is not able to consume all of generated electricity in the same premises, he shall be governed by Regulation 9 of these Regulations.

3. Regulation 7 of the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016, inter-alia provide as under:

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7 Procedure for Application:

Various activities and different authorities are associated with the Solar Rooftop PV project. It is necessary that the different entities carry out



the works within prescribed time limit. Therefore, time frame prescribed in the table below shall be scrupulously followed by the concerned authorities.

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sr no	Activity	Sub activity	durations in day (s)
6	POST TFR	<p><i>On receipt of TFR from field, Head Office shall issue letter to applicant regarding In principle consent for connectivity, payment of connectivity charges and execution of connectivity agreement within 15 days.</i></p> <p><i>OR</i></p> <p><i>Issuing estimate to applicant for system strengthening (if required) to be paid within 30 days, payment of connectivity charges and execution of connectivity agreement.</i></p>	<i>5 days from receipt of TFR from field office</i>
7	<i>Signing of connectivity agreement and issuance of letter to applicant for completion of project</i>	<p><i>Case-1 (no system strengthening required)</i></p> <p><i>On payment of connectivity charges and execution of connectivity agreement within 15 days of consent. Letter to applicant to complete the project work within 6 months.</i></p> <p><i>Case-2 (If system strengthening required)</i></p> <p><i>On payment of connectivity charges and execution of connectivity agreement within 30 days along with payment of estimate. Letter to applicant to complete the project work within 6 months.</i></p>	<i>5 days from execution of agreement</i>

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A copy of the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016, is attached hereto and marked as **Annexure A**.



4. The Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016, have been subsequently amended vide amendments dated 06.10.2017, 23.01.2020, 31.05.2022, 04.09.2024. A copy of the amendments dated 06.10.2017, 23.01.2020, 31.05.2022, 04.09.2024 are attached hereto and marked as **Annexure B (Colly)**.
5. The Third Amendment to the Net Metering Regulations 2016 notified in 2022 amended the definition of the term, net metering. The third amendment, also made provided for amendments in the Interconnection

Agreement as provided under the principal Regulations. The amended definition of the term net metering reads as under:

2(p) “net-metering” means a mechanism whereby solar energy exported to the Grid from Grid Interactive Rooftop Solar Photovoltaic System of a Prosumer is deducted from energy imported from the Grid in units(kWh)to arrive at the net imported or exported energy and the net energy import or export is billed or credited or carried-over by the distribution licensee on the basis of the applicable retail tariff by using a single bidirectional energy meter for net metering at the point of supply;

6. The Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) (Fourth Amendment) Regulations, 2024, amended Regulation 7 as under:

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6.	Post TFR	<i>On receipt of TFR from field, Head Office shall issue letter to applicant regarding ‘In Principle’ consent for connectivity, payment of connectivity charges and execution of connectivity agreement within 15 days. OR Issuing estimate subject to Regulation 5.1, to Applicant for system strengthening to be paid within 30 days, payment of connectivity charges and execution of connectivity agreement.</i>	<i>2 days from receipt of TFR from field office</i>
7.	Signing of connectivity agreement and issuance of letter to applicant for completion of project work	<i>Case 1 (No system strengthening required) On payment of Connectivity Charges and execution of Connectivity Agreement within 15 days of consent. Letter to applicant to complete the project work within 6 months</i>	<i>5 days from execution of agreement</i>
		<i>Case 2 (If system strengthening required) On payment of Connectivity Charges and execution of Connectivity Agreement within 30 days along with payment of estimate, if any. Letter</i>	<i>5 days from execution of agreement</i>



		<i>to applicant to complete the project work within 6 months</i>	
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7. The Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016, as amended, provide for a period of 15 days within which interconnection/net metering agreement is to be executed between the concerned distribution licensee and the consumer/prosumer.
8. That the PM Surya Ghar Muft Bijli Yojana was launched on 13.02.2024 to promote sustainable development and public welfare by providing up to, 300 units of free electricity per month to one crore household. The scheme is intended to increase the share of rooftop solar capacity and empower residential household to generate their own electricity. A copy of guideline/scheme of the PM Ghar Muft Bijli Yojana is attached hereto and marked as **Annexure C**.
9. Further the Ministry of New and Renewable Energy (MNRE) has emphasized the need for rapid implementation of this scheme to achieve the ambitious target. MNRE vide Letter dated 30.12.2024 has noted that the scheme targets one crore households to be implemented until FY 2026-27 and emphasised the role of Distribution Companies for successful implementation. MNRE vide said letter inter alia sought for simplification, net metering processes by eliminating requirement for Net Metering Agreement. This was stated as there is no commitment required from the consumer and the Distribution Company has to abide by the Net Metering Regulations issued by the respective State Commissions. It was also requested that additional fees such as application, facilitation and connection charges are waived. Copies of the Letter dated 30.12.2024 of Ministry of New and Renewable Energy with a copy to the Principal Secretary, Energy, Gujarat is attached hereto and marked as **Annexure D (Colly.)**.
10. In light of the above, the matter has been considered and it is felt that since there is no direct consumer commitment involved, the interconnection agreement may not be necessary. The application form itself may be considered as an agreement and the provisions of the Regulations as well as terms and conditions of the Orders passed by the Hon'ble Commission would be applicable to both parties.



11. It may also be considered that it would be beneficial if there is reduction in time and simplification of the process as recommended by MNRE considering the objective of the Scheme.
12. Therefore, with the intent to speed up the installation of solar rooftop system and to promote the rapid implementation of the PM Surya Ghar Muft Bijli Yojana, Serial Number 7 under Regulation 7 may have to be relaxed or modified in regard to the consumer under the said Scheme. Further reference in Serial Number 6 to agreement would have to be considered accordingly.
13. That UGVCL is therefore filing the present Petition seeking the intervention of this Hon'ble Commission, for relaxation or amendment of the requirement of entering into interconnection/net metering agreement.
14. That Regulation 18, 19 and 20 of the Net Metering Regulations, 2016, as amended from time to time, provide for the Power to relax, and Power to remove difficulty of this Hon'ble Commission. The said Regulations provide as under:

18 Power to relax

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 these Regulations on its own motion or on an application made before it by an interested person, after following due process of law.

20 Power to Removal of difficulty

If any difficulty arises in giving effect to these Regulations, the Commission may issue necessary orders or clarification/interpretation to remove such difficulties either on its own volition, or based on representations from stakeholders.

15. It is therefore prayed before this Hon'ble Commission that it may exercise its power under the above mentioned Regulations, to relax the requirement of entering into a Net metering/Interconnection Agreement by the Distribution Licensee with the consumer setting up a Rooftop Solar PV Project under PM Surya Ghar Muft Bijli Yojana.



16. Without prejudice to the above consideration of relaxation of requirement, it is submitted that the Hon'ble Commission also has powers to amend the Regulations:

19 Power to amend

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations after following due process of law.

17. That the removal of the requirement to enter into net metering/interconnection agreement by the consumer/prosumer, will help in rapid implementation of the PM Surya Ghar Muft Bijli Yojana. The above consideration is being sought in view of the MNRE Letter and consideration of the aspects.

18. UGVCL craves leave of this Hon'ble Commission to add any further submissions/grounds or file additional information at a later stage if so required based on the proceedings in the present Petition.

PRAYER

19. In the facts and circumstances of the case, submissions herein and in the interest of justice, it is most humbly prayed that this Hon'ble commission may be pleased to: -

(a) Admit the present Petition;

(b) Exercise power to relax or remove difficulties for removing the requirement of entering into Interconnection/Net metering Agreement for the Distribution Licensee with residential consumers, setting up Rooftop Solar PV Projects under PM Surya Ghar Muft Bijli Yojana;

(c) In the alternative, initiate proceedings for amendment of the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 to exempt residential consumers, setting up Rooftop Solar PV Projects under PM Surya Ghar Muft Bijli Yojana from entering into a Interconnection/Net metering Agreement for the Distribution Licensee with; and/or



(d) Pass such further or other Orders as this Ld. Commission may deem just and proper in the facts and circumstances of the case.



Petitioner

Superintending Engineer (Solar)
Uttar Gujarat Vij Co. Ltd.
R&C Office, Mehsana.

DATE: 26.03.2025

PLACE: Mehsana

DECLARATION

Declaration that the subject matter of present Petition has not been raised by the Petitioner before any other competent forum and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.

DATE: 26.03.2025

PLACE: Mehsana



PETITIONER

Superintending Engineer (Solar)
Uttar Gujarat Vij Co. Ltd.
R&C Office, Mehsana.



BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION,
GANDHINAGAR

PETITION NO. _____ OF 2025

AND IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
2. Madhya Gujarat Vij Company Limited
3. Paschim Gujarat Vij Company Limited
4. Dakshin Gujarat Vij Company Limited

-- Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad)& Anrs.

SERIAL NO..... 391
BOOK NO..... 05
PAGE NO..... 41
DATE..... 26/03/2025

AFFIDAVIT

I, Ishwarbhai Katara S/o Galjibhai Katara, aged about 49 years, resident of Gandhinagar hereby solemnly affirms and state as under:

1. I am the Superintending Engineer (Solar) of the Petitioner and I am fully conversant with the facts of the case and able to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Petition and I say that the facts stated therein are based on the records of the Petitioner and believed by the deponent to be true.
3. The Annexures to the Petition are true copies of their originals.



Solely Affirmed & Signed
BEFORE ME

Jayeshkumar M. Chaudhary

NOTARY

VERIFICATION:

(GOVT. OF INDIA) MEHSANA

26/03/2025


DEPONENT

Superintending Engineer (Solar)
Uttar Gujarat Vij Co. Ltd.
R&C Office, Mehsana.

I, the deponent above named do hereby verify that the contents of my above Affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Mehsana on this 26th March of 2025




DEPONENT

Superintending Engineer (Solar)
Uttar Gujarat Vij Co. Ltd.
R&C Office, Mehsana.

Annexure - A

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GUJARAT ELECTRICITY REGULATORY COMMISSION

Notification No. 5/2016

Regulations for Net Metering Rooftop Solar PV Grid Interactive Systems

June 2016

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Date: 18/06/2016

Notification No. 5/2016

In exercise of powers conferred under Sections 61, 66, 86(1)(e) and 181 of the Electricity Act, 2003 (Act 36 of 2003) and all other powers enabling it in this behalf, the Gujarat Electricity Regulatory Commission hereby makes the following Regulations for the grid connected Solar Rooftop Photovoltaic System:

1 Short title, and commencement

- 1.1 These Regulations shall be called the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016.
- 1.2 These Regulations shall come into force from the date of its notification in the Official Gazette.

2 Definitions and Interpretations

- 2.1 In these Regulations, unless the context otherwise requires,
 - a) "Act" means the Electricity Act, 2003 (36 of 2003) as amended from time to time ;
 - b) "Agreement" means a connection agreement entered into between the Distribution Licensee and the consumer;

- c) "**Area of supply**" means the geographic area within which the licensee, for the time being, is authorised by its licence to supply the electrical energy;
- d) "**Average Power Purchase Cost**" (APPC) means the Weighted Average Pooled Price at which the distribution licensee has purchased the electricity including cost of self generation, if any, in the previous year from all the energy suppliers on long-term, medium-term and short-term basis, but excluding energy purchased from renewable energy sources,
- e) "**Billing Cycle or Billing Period**" means the period for which regular electricity bills are prepared for different categories of consumers by the Distribution licensee, as specified by the Commission;
- f) "**Commission**" means the Gujarat Electricity Regulatory Commission constituted under the Act;
- g) "**Consumer**" means any person who is supplied with electricity for his own use by a Distribution licensee or the Government or by any other person engaged in the business of supplying electricity to the public under the Act or any other law for the time being in force and includes any person whose premises, for the time being, is connected for the purpose of receiving electricity with the works of a distribution licensee, the Government or such other person, as the case may be;
- h) "**Connected load**" expressed in kW, kVA or HP, refers to aggregate of the manufacturer's rated capacities of all the energy consuming devices or apparatus connected with the Distribution licensee's service line on the consumer's premises which can be operated simultaneously. For the purpose of levy of any charges and for deciding the supply voltage, the connected load shall be determined as per the method prescribed in the Gujarat Electricity

Regulatory Commission (Electricity Supply Code and Related Matters) Regulations, 2015 and subsequent amendments thereto;

- i) **“Contracted load”** or **“Sanctioned load”** or **“Contracted demand”** means the maximum demand in kW, kVA or HP, agreed to be supplied by the licensee and indicated in the agreement executed between the licensee and the consumer;
- j) **“Distribution licensee”** or **“licensee”** or **“supply licensee”** means a person who is granted a licence under Section 14 of the Act authorizing him to operate and maintain a distribution system and supplying electricity to the consumers in his area of supply;
- k) **“Electricity Supply Code”** means the GERC (Electricity Supply Code and Related Matters) Regulations, 2015 notified by the Commission under Section 50 of the Act as amended from time to time;
- l) **“Eligible Consumer”** means a consumer of electricity in the area of supply of the distribution licensee, who intends to use a Rooftop Solar PV System, given that such system is self owned, to offset part or all of the consumer's own electrical requirements.
- m) **“Financial Year”** or **“Year”** means the period beginning from first (1st) of April in an English calendar year and ending on thirty first (31st) of March of the next year;
- n) **“Interconnection Point”** means the interface of Rooftop Solar PV System connected with the load side of meter/Distribution licensee cut out/switch gear fixed in the premises of the consumer.

- o) **"Invoice"** means either a Regular Bill / Supplementary Bill or a Regular Invoice/ Supplementary Invoice raised by the distribution licensee as provided in Regulation 2.1(e) of these Regulations;
- p) **"Net Metering"** means an arrangement under which Rooftop Solar PV System installed at Eligible Consumer's premises delivers surplus electricity, if any, to the Distribution Licensee after off-setting the electricity supplied by the distribution licensee to such Eligible Consumer during the applicable billing period.
- q) **"Net meter"** means an appropriate energy meter capable of recording both import & export of electricity or a pair of meters one each for recording the import and export of electricity as the case may be;
- r) **"Obligated entity"** means the entity mandated under clause (e) of sub-section (1) of Section 86 of the Act to fulfil the Renewable Purchase Obligation and identified as such under Gujarat Electricity Regulatory Commission (Procurement of Energy from Renewable Energy Sources) Regulations, 2010 as amended from time to time;
- s) **"Premises"** means rooftops or/and Open 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 the licensee for supply of electricity;
- t) **"Rooftop Solar PV Power Plant"** or **"Rooftop Solar PV System"** or **"Solar Generating Plant"** means the Solar Photo Voltaic Power Plant including small solar systems installed on the rooftops/ground mounted or open land of

consumer premises that uses sunlight for direct conversion into electricity through photovoltaic technology;

- u) **“Renewable Energy Certificate (REC)”** means the certificate issued in accordance with the procedures approved by the Central Electricity Regulatory Commission;
- v) **“Renewable Energy System”** means the system to generate electricity from such source(s) which are recognized as renewable energy source(s) by the Gujarat Electricity Regulatory Commission in GERC (Procurement of Energy from Renewable Energy Sources) Regulations, 2010 as amended from time to time;
- w) **“State Nodal Agency”** means the agency as designated by the State Government through Solar Policy 2015;
- x) **“Tariff Order”** in respect of a licensee means the most recent 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;

2.2 All other words and expressions used in these Regulations although not specifically defined herein above, but defined in the Act, or defined under any law passed by the Parliament applicable to the electricity industry in the State shall have the meaning assigned to them in the Act or in such law.

2.3 Headings or Capital words are inserted for convenience and may not be taken into account for the purpose of interpretation of these Regulations;

2.4 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;

2.5 Abbreviations used in these Regulations shall have the meanings as stated in Annexure - I.

3 Scope and Application

3.1 These Regulations shall apply to the distribution licensee and consumers of electricity of distribution licensee availing supply from it in its area of supply in the State of Gujarat, or consumers who are receiving electricity from its own generating source but situated in the distribution licensee area.

3.2 The Eligible Consumer may install the Rooftop Solar PV System under net metering arrangement which,

- shall be within the permissible rated capacity as defined under these Regulations.
- shall be located in the consumer's premises.
- shall interconnect and operate safely in parallel with the distribution licensee network.

3.3 These Regulations do not preclude the right of relevant Distribution licensee or State Government Department/authorities to undertake Rooftop Solar PV projects above 1 MW capacity through alternative mechanisms.

4 General Principles

The distribution licensee shall provide the net metering arrangement to the eligible consumer, who intends to install grid connected Rooftop Solar PV System, in its area of supply on non-discriminatory and first come first served basis.

Provided that the consumer is eligible to install the grid connected Rooftop Solar PV System of the rated capacity as specified under these Regulations;

Provided further that the interconnection of such system with the grid is undertaken as specified under the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 read with Central Electricity Authority (Technical Standards for Connectivity of Distributed Generated Resources) Regulations, 2013 and provisions of GERC (Terms and Condition of Intra-State Open Access) Regulations, 2011 as amended from time to time.

5 Capacity Targets for Distribution Licensee

The Distribution Licensee shall provide net metering arrangement to Eligible Consumers.

Provided that the cumulative capacity to be allowed at a particular distribution transformer shall not exceed 65% of the peak capacity of the distribution transformer;

- 5.1 The distribution licensee shall update distribution transformer capacity available for connecting Rooftop Solar PV Systems under net metering arrangement on yearly basis and shall provide the information to the Commission.

Provided that if augmentation of transformer/distribution network is required, the cost of such augmentation shall be borne by the consumer.

The capacity of Rooftop Solar PV System to be installed at the premises of any consumer shall not be less than one Kilo Watt (1kW).

6 Eligible Consumer and individual project capacity

6.1 In addition to the general eligibility defined in Regulation 2.1(l) of these Regulations, the Eligible Consumer for the Rooftop Solar PV System with net metering shall:

- i. be a consumer of the local distribution licensee;
- ii. own or be in legal possession of the premises including the rooftop or terrace or building or infrastructure or open areas of the land or part or combination thereof on which the Solar PV System is proposed to be installed;
- iii. connect the proposed Rooftop Solar PV System to the Distribution System of the Licensee;
- iv. consume all of the electricity generated from the Rooftop Solar PV System at the same premises. If the consumer is not able to consume all of generated electricity in the same premises, he shall be governed by Regulation 9 of these Regulations.

6.2 The maximum Rooftop Solar PV System capacity to be installed at any Eligible Consumer's premises shall be upto a maximum of 50% of consumer's sanctioned load/contract demand;

Provided that the installed capacity shall not be less than 1 kW and shall not exceed 1 MW;

Provided also that the installed capacity is aligned with the provisions for permitting consumer connections as stated in the Gujarat Electricity Regulatory Commission (Electricity Supply Code and Related Matters) Regulations, 2015 as amended from time to time, read with the provisions of GERC (Terms and Conditions of the Intra-State Open Access) Regulations, 2011 as amended from time to time.

7 Procedure for Application

Various activities and different authorities are associated with the Solar Rooftop PV project. It is necessary that the different entities carry out the works within prescribed time limit. Therefore, time frame prescribed in the table below shall be scrupulously followed by the concerned authorities.

Sr. No.	Activity	Sub Activity	Duration in day(s)
1.	Registration at GEDA	GEDA shall issue Registration Certificate	5 days from receipt of duly completed application
2.	Approval from Chief Electrical Inspector	CEI shall approve Single Line Diagram, Earthing Diagram and Wiring Diagram	10 days from receipt of duly completed application
3.	Application to Distribution Licensee	<p>Applicant shall submit application in prescribed format along with following compliance and documents to Distribution Licensee</p> <ul style="list-style-type: none"> • Capacity of Solar Rooftop to be installed (Maximum shall be 50% of the Consumer's sanctioned load) • Copy of registration at GEDA • Documents related to legal possession of roof-top /NOC of co-owners, in case of joint ownership. • Approval of Chief Electrical Inspector (CEI) for Single Line Diagram, Earthing Diagram and Wiring Diagram. 	
4.	Technical Feasibility Report (TFR)	On Registration with Distribution Licensee, letter to concerned Circle/Division for TFR and informing applicant regarding specifications of CTPT, meter.	5 days from receipt of duly completed application
5.	TFR from field	TFR to include following	10 days from the

Sr. No.	Activity	Sub Activity	Duration in day(s)
		<p>a) Name of Consumer.</p> <p>b) Load details of the building where roof-top is to be installed as under: Name of Division, Sub-Division, Consumer Name, Consumer No., Address, Tariff, Contract Demand/Load, Connected Load</p> <p>c) Name of 11KV feeder, Transformer capacity, Solar Rooftop capacity already connected as well as approved/sanctioned on this transformer including this proposed Solar Rooftop capacity whether total Rooftop solar capacity is within the rated capacity of transformer.</p> <p>d) Maximum demand recorded during last one year.</p> <p>e) No dues certificate.</p> <p>f) No legal disputes pending certificate.</p> <p>g) Detailed estimate to be recovered from applicant for strengthening of Distribution Licensee's system for the work to be carried out for providing connectivity and evacuation facility of surplus power to be injected by the applicant.</p> <p>Note: Solar installation to be restricted up to T/C capacity, and if required, it is to be strengthened at the cost of Solar Rooftop Generator.</p>	letter of Head Office
6	Post TFR	<p>On receipt of TFR from field, Head Office shall issue letter to applicant regarding</p> <p>In principle consent for connectivity, payment of connectivity charges and execution of connectivity agreement within 15 days.</p> <p>OR</p> <p>Issuing estimate to applicant for system strengthening (if required) to be paid</p>	5 days from receipt of TFR from field office

Sr. No.	Activity	Sub Activity	Duration in day(s)
		within 30 days, payment of connectivity charges and execution of connectivity agreement.	
7	Signing of connectivity agreement and issuance of letter to applicant for completion of project work	<p>Case 1 (No system strengthening required)</p> <p>On payment of Connectivity Charges and execution of Connectivity Agreement within 15 days of consent. Letter to applicant to complete the project work within 6 months</p> <p>Case 2 (If system Strengthening required)</p> <p>On payment of Connectivity Charges and execution of Connectivity Agreement within 30 days along with payment of estimate. Letter to applicant to complete the project work within 6 months.</p>	5 days from execution of agreement 5 days from execution of agreement
8	System strengthening by Distribution Licensee	Distribution Licensee to complete the work of system strengthening on payment of estimate.	45 days in parallel to project installation
9	Notice to applicant for commissioning	Issuance of two months notice to applicant for commissioning of the project on expiry of 6 months project completion period.	Within 5 days on expiry of 6 months
10	In case of non-completion of work by applicant	If no intimation received from applicant on expiry of 2 months notice period, application shall be cancelled informing the applicant within 30 days forfeiting all charges paid for Solar Rooftop Project.	Within 5 days on expiry of 2 months
11	On completion of work by applicant	<p>Intimation to applicant to submit following documents within 5 days: (if not submitted along with intimation of commissioning by applicant)</p> <ol style="list-style-type: none"> 1. Ownership of Solar PV system 2. Installation charging approval of Chief Electrical Inspector(CEI) 3. Meter/ CTPT testing certificate from High-tech lab and ERDA. 4. All equipment should comply with 	5 days from receipt of completion letter from applicant

Sr. No.	Activity	Sub Activity	Duration in day(s)
		<p>IEC standards. Applicant to submit relevant IEC certificate/test reports for all equipments ,i.e. for modules/SPV/inverters/cables/junction box/Transformer /RMU/CTPT/meter etc.</p> <p>5. Installation of proper protection system (inverter shall have anti islanding feature) along with second line of protection such as no volt relay, applicant has to pay connectivity charges and execute connectivity agreement with Distribution Licensee</p> <p>Note: If applicant is not submitting above documents within 5 days, application shall be cancelled forfeiting all charges paid for Solar Rooftop Project.</p>	
12	Intimation to Field Office	On receipt of documents from the applicant, intimation to Field Office/Sub-division for installation of meter (Solar meter to record total generation and bidirectional/ABT meter for net metering).	5 days from receipt of documents from the applicant
13	Report from field/sub-division	Installation of meter (Solar meter to record total generation and bidirectional/ABT meter for net metering) and intimate to applicant and report to HO	7 days from receipt of letter from HO
14	Intimation to GEDA	Distribution Licensee shall intimate to GEDA for issuing commissioning certificate	5 days from receipt of letter from Distribution Licensee
15	Issuance of Commissioning Certificate from GEDA	GEDA shall visit the site in consultation with Distribution Licensee and applicant and issue Commissioning Certificate	5 days from the receipt of intimation from applicant

8 Interconnection with the Grid: Standards and Safety

(1) The interconnection of the Rooftop Solar PV System with the network of the distribution licensee shall be made as per the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007, CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013 and GERC (Terms and Conditions of Intra-State Open Access), Regulations, 2011 as amended from time to time.

The interconnection of the Rooftop Solar PV System with the distribution system of the licensee shall conform to the relevant provisions of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 as amended from time to time.

Provided that a variation in the rated capacity of the system within a range of five percent (5%) shall be allowed;

Provided further that the system qualifies the technical requirements for grid interconnection with the network of the distribution licensee.

(2) The connectivity levels at which the Rooftop PV Solar System shall be connected with the grid are as specified below:

Sr. No.	Connected load of Eligible Consumer	Connectivity level
1.	Upto 6 kW	240 V- single phase
2.	Above 6 kW and upto 18.65 kW	415 V-Three phase
3.	Above 18.65 kW and upto 100 kW/kVA	415 V-Three phase
4.	Above 100 kW/kVA	HT level

(3) The above connectivity norms are applicable to all the Rooftop Solar PV System for seeking connectivity with the network of the distribution licensees. HT consumers may install Rooftop Solar PV System at LT/HT voltage and connect

them to their LT/HT system for interconnection of Rooftop Solar PV System with the local distribution licensee's grid, for which the relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, as amended from time to time, Central Electricity Authority (Standards of connectivity of distributed generation resources) Regulations, 2013 and GERC (Terms and Conditions of Intra-State Open Access) Regulations, 2011 as amended from time to time shall be applicable.

- (4) The Rooftop Solar PV Energy Generator shall be responsible for safe operation, maintenance and rectification of defects of its system up to the interconnection point beyond which the responsibility of safe operation, maintenance and rectification of any defects in the system including the net meter shall rest with the distribution licensee.
- (5) The consumer/ Rooftop Solar PV Energy Generator shall be solely responsible for any accident to human being/ animals whatsoever (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, based on the issue decided by the Chief Electrical Inspector. The distribution licensee reserves the right to disconnect the consumer's installation at any time in the event of such exigencies to prevent accident or damage to men and materials.
- (6) The tests as per EN 50160 and as per distribution licensee's standards shall be carried out by the Chief Electrical Inspector to ensure the quality of power generated from the Rooftop Solar PV System.
- (7) Any alternate source of supply shall be restricted to the consumer's network and the consumer shall be responsible to take adequate safety measures to prevent battery power/diesel generator power/back-up power extending to distribution licensee's LT grid on failure of distribution licensee's grid supply.

(8) The distribution licensee shall have the right to disconnect the Rooftop Solar PV System from its system at any time in the following conditions:

- (i) Emergencies or maintenance requirement on the distribution licensee's system,
- (ii) Hazardous conditions existing on the distribution licensee's system due to operation of Rooftop Solar PV System or protective equipment as determined by the Distribution Licensee/Transmission Licensee/SLDC, and
- (iii) Adverse electrical effects, such as power quality problems, on the electrical equipment of other consumers of the distribution licensee caused by the Rooftop Solar PVS system as determined by the distribution licensee.

(9) Subject to sub Regulation 8(4) above, the distribution licensee may call upon the Rooftop Solar PV generator to rectify the defect within two days of such intimation.

(10) The Rooftop Solar PV System should be capable of detecting an unintended islanding condition. This system must have anti-islanding protection to prevent any unfavourable conditions including failure of supply. IEC-62116 shall be followed to test islanding prevention measure for grid connected photovoltaic inverters.

(11) Every Rooftop Solar PV System shall be equipped with automatic synchronization device:

Provided that Rooftop Solar PV System using inverter shall not be required to have separate synchronization device, if the same is inherently built into the inverter.

(12) The Rooftop Solar PV System operating in parallel with electricity system shall be equipped with the following protective functions to sense abnormal conditions on 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 50.5 Hz or below 47.5 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 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 cease to energize the electricity system within two (2) seconds of the formation of an unintended island.

(13) The equipment of the Rooftop Solar PV System shall meet the following requirements:

- (i) Circuit Breakers or other interrupting equipment shall be suitable for their intended application with the capability of interrupting the maximum available fault current expected at their location,
- (ii) The Rooftop Solar PV System and 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.

(14) Every time the Rooftop Solar PV System of the Eligible Consumer is synchronized with the distribution system, it shall not cause voltage fluctuation greater than $\pm 5\%$ at the point of inter connection.

(15) After considering the maintenance and safety procedures, the distribution licensee may require a Rooftop Solar PV System to provide a manually operated isolating 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 licensee's personnel without requiring clearance from the applicant;
- (iv) Be capable of being locked in the open position;
- (v) May not be rated for load break nor may have feature of over-current protection; and
- (vi) Be located at a height of at least 2.44 m above the ground level.

(16) Prior to synchronization of the Rooftop Solar PV System for the first time with the distribution system of the licensee the applicant and the licensee shall agree on the protection features and control diagrams.

(17) 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 technical standards, power quality standards and inverter standards shall be as per Annexure - V of these Regulations or any other standards as may be specified by CEA from time to time.

(18) The commissioning test of the Rooftop Solar PV System shall be carried out in the presence of representatives of consumer/owner of Rooftop Solar PV System,

GEDA and concerned officer of the distribution licensee. The commissioning certificate shall be signed by all the above named parties. Date of commissioning shall be recognised from the date on which successful commissioning test is conducted.

(19) The Commissioning certificate must contain of the following details:

- I. Details of Solar PV panels including name of the manufacturer, type, size/capacity of the panels, etc.;
- II. Details regarding inverter, types of inverters and size;
- III. Total capacity of the Solar PV Plant;
- IV. Details of meter installed along with the types of meter accuracy, serial number, etc.

9 Energy Accounting and Settlement

Any energy injected prior to commissioning shall be deemed as inadvertent power. The consumer/Solar PV owner is not eligible to receive any monetary compensation for such inadvertent power.

9.1 For each billing period, the licensee shall show the quantum of electricity injected by Eligible Consumer/Solar PV system in the grid, electricity supplied by the distribution licensee, net billed electricity for payment by the consumer and net exported energy after adjustment against the consumption separately.

(1) For Residential and Government consumers

9.2 In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System; e.g. for the Rooftop Solar PV System commissioned during 2016-17, the APPC rate determined by the Commission for FY 2015-16 shall be applicable.

Banking of energy shall be allowed within one billing cycle of the consumer.

The distribution licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

(2) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and not registered under REC mechanism.

9.3 In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System;

Banking of energy shall be allowed within one billing cycle of the consumer, wherein set off may be given against energy consumed at any time of the billing

cycle. However, peak charges shall be applicable for consumption during peak hours.

The distribution licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

(3) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and utilizing the 'renewable attribute' for RPO compliance.

9.4 In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption in 15 minutes time block shall be purchased by the concerned Distribution Licensee at the APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the Rooftop Solar PV System;

(4) For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Roof top Solar PV System and utilizing the 'renewable attribute' for REC.

9.5 In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption in 15 minute time block shall be purchased by the concerned Distribution Licensee at the 85% of APPC rate determined by the Commission for the year in which the Rooftop Solar PV System is commissioned for whole life of the project;

- 9.6 The energy accounting and settlement for wheeling power from solar projects other than Rooftop set up for captive purpose shall be in line with the provision at Para 9.3 to 9.5.

10 Dispute Resolution

- 10.1 In case of any dispute pertaining to these Regulations and its interpretation, it shall be decided by the Gujarat Electricity Regulatory Commission by observing the prescribed procedure.

11 Solar Renewable Purchase Obligation

- 11.1 The quantum of electricity consumed by the Eligible Consumer, who is not defined as an obligated entity, from the Rooftop Solar PV System under net-metering arrangement shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the distribution licensee and no REC shall be issued as the generated solar energy shall be used to meet the Distribution licensee's RPO.

Industrial, Commercial and other than Residential and Government Consumers, utilizing both, 'energy attribute' as well as 'renewable attribute' of the generated solar energy, the solar energy generated and consumed by such

consumers during the 15 minute time block shall be credited towards meeting the consumer's RPO and no REC shall be issued for such generation.

11.2 However, surplus energy, if any, exported during the 15 minute time block purchased by distribution licensee, shall be credited towards meeting the Distribution Licensee's RPO and no REC shall be issued for such generation.

Provided that if such consumers utilize the 'renewable attribute' to get Renewable Energy Certificate under the REC mechanism then entire solar energy generated in 15 minute time block shall be considered for issuing REC.

12 Applicability of other charges

12.1 The Rooftop Solar PV System under net metering arrangement, installed on the Eligible Consumer's premises, shall be exempted from Transmission Charge, Transmission Loss, Wheeling Charge, Wheeling Loss, Cross Subsidy Surcharge and Additional Surcharge.

13 Metering arrangement

13.1 The metering system shall be as per the Central Electricity Authority (Installation & Operation of Meters) Regulations, 2006 as amended from time to time.

13.2 Bi-directional meter or alternately two separate meters for import and export of the same accuracy class as the consumer's meter existing before the commissioning of the Rooftop Solar PV System shall be installed in replacement of existing meter. Such meters may be provided by the distribution licensee or consumer. If the meter is installed by the distribution licensee in that case, cost of the same shall be recovered from the consumer.

- 13.3 Industrial, Commercial and Other consumers utilizing both 'energy attribute' as well as 'renewable attribute' of the generated solar energy shall have to use ABT compliant meter.
- 13.4 These meters shall be Meter Reading instrument (MRI) or wireless equipment compliant for recording meter readings.

Provided, if bills are prepared on the basis of MRI downloads or if meter reading is taken on the basis of remote meter-reading and the consumer wishes to have a record of the reading taken, he shall be allowed so by the licensee.

- 13.5 The main Solar Meters shall be of 0.2s class accuracy and with facility for recording meter readings using Meter Reading Instrument (MRI) or wireless equipment. Check meters shall be mandatory for Rooftop Solar PV Systems having capacity more than 20 kW. For installations size of less than or equal to 20 kW, the Solar Check meters would be optional.

Provided that the cost of new/additional meter (s) shall be borne by the Eligible Consumer such meter shall be tested and installed by the distribution licensee.

The meters installed shall be inspected, verified for the accuracy and sealed by the distribution licensee in the presence of the representative of the consumer. Provided that in case the Eligible Consumer is under the ambit of time of day tariff, meters compliant of recording time of day consumption/generation shall be installed.

- 13.6 The meter reading taken by the distribution licensee shall form the basis of commercial settlement.

14 Sharing of CDM benefits

100% of the gross proceeds on account of CDM benefit to be retained by the Rooftop Solar PV System owner.

15 Demand Cut

No demand cut shall be applicable for the Residential and Government consumers. However, Industrial, Commercial and Other consumers shall be exempted from demand cut up to 50% of the installed solar capacity, wherever technically feasible.

16 Penalty or Compensation

In case of failure of net metering system, penalty or compensation shall be payable as per the provisions of the GERC (Standard of Performance of Distribution Licensee)Regulations, 2005 as amended from time to time.

17 Power to give directions

The Commission may from time to time issue such directions and orders as may be considered appropriate and necessary for implementation of these Regulations.

18 Power to relax

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 these Regulations on its own motion or on an application made before it by an interested person, after following due process of law.

19 Power to amend

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations after following due process of law.

20 Power to Removal of difficulty

If any difficulty arises in giving effect to these Regulations, the Commission may issue necessary orders or **clarification/interpretation** to remove such difficulties either on its own volition, or based on representations from stakeholders.

Sd/-

[Roopwant Singh, IAS]

Secretary

Gujarat Electricity Regulatory Commission

Date: 18/06/2016

Place: Gandhinagar

Annexure - IABBREVIATIONS

ABT	Availability Based Tariff
AC	Alternating Current
AT&C	Aggregate Technical and Commercial
BIS	Bureau of Indian Standards
CB	Circuit Breaker
CEA	Central Electricity Authority
CT	Current Transformer
DC	Direct Current
Distribution Licensee	Dakshin Gujarat Vij Company Limited, Madhya Gujarat Vij Company Limited, Uttar Gujarat Vij Company Limited, Paschim Gujarat Vij Company Limited, Torrent Power Limited- Ahmedabad, Torrent Power Limited- Surat, Torrent Energy Ltd., ASPEN Infrastructure Limited, Kandla Port Turst, MPSEZ Utilities Private Limited and Jubilant Infrastructure Limited
EHT	Extra High Tension
EHV	Extra High Voltage
FOR	Forum of Regulators
GBI	Generation Based Incentive
GEDA	Gujarat Energy Development Agency
GERC	Gujarat Electricity Regulatory Commission
GETCO	Gujarat Energy Transmission Corporation Ltd.
GIS	Geographical Information System
GOI	Government of India
GPS	Global Positioning System
GSM	Global System for Mobile Communications
GSS	Grid Substation
GUVNL	Gujarat Urja Vikas Nigam Ltd.
HP	Horse Power
HT	High Tension
IEC	International Electro-technical Commission
IEEE	Institution of Electrical and Electronics Engineers
INR	Indian Rupee
kV	Kilo Volt
kVA	Kilo Volt Ampere
kW	Kilo Watt
kWp	Kilo Watt Peak

kWh	Kilo-Watt Hour
LT	Low Tension
MNRE	Ministry of New and Renewable Energy
MPLS	Multi protocol Label Switching
MVA	Mega Volt-Ampere
MW	Mega watt
MWp	Mega Watt Peak
NM	Net-Meter
O&M	Operations and Maintenance
PCU	Power Conditioning Unit
PT/VT	Potential/Voltage Transformer
RE	Renewable Energy
REC	Renewable Energy Certificate
RPO	Renewable Purchase Obligation
SLDC	State Load Despatch Centre
SM	Solar Meter
SPV	Solar Photo Voltaic
TVM	Tri-Vector Meter
UM	Utility Meter

Annexure II

Application Form to be kept on web-site by the distribution licensee

Annexure-IIIConnectivity charges payable by the solar roof top consumer/Solar PV project owner

Connectivity Charges applicable for Rooftop Solar PV System shall be as under:

System Size	Applicable fees per connection
From 1 kW up to 6 kW	INR 1,500
More than 6 kW up to 100 kW	INR 10,000
More than 100 kW up to 1 MW	INR 50,000

The Connectivity Charges for Rooftop Solar PV System shall be payable to the respective Distribution Licensee.

Annexure-IVInter connection Agreement between Distribution Licensees and solar roof top PV project owner**Net Metering Inter Connection agreement**

This Agreement is made and entered into at (location) _____ on this (date) _____ day of (month) _____ year _____ between the Consumer, by the name of ----- having premises at (address) _____ as first party

AND

_____ (Name of the Distribution Licensee), Company registered under the Companies Act 1956/2013 and functioning as the "Distribution Licensee" under the Electricity Act 2003 having its Head Office at, _____ (hereinafter referred to as ___ or Distribution Licensee which expression shall include its permitted assigns and successors) a Party of the Second Part.

AND, WHEREAS _____(name of the consumer) desires to set-up such Solar Photovoltaic Rooftop System of ___ kW at _____ connected with (Name of the Distribution Licensee)'s grid at _____ Voltage level for his/her/its own use within the same premises.

WHEREAS, the Gujarat Energy Development Agency (GEDA) through letter dated _____ has registered for developing and setting up ___ kW own Rooftop Solar PV System for his/her/its own use under Gujarat Solar Power Policy - 2015 at his/her/its premises in legal possession including rooftop or terrace.

And whereas, the Distribution Licensee agrees to provide grid connectivity to the Consumer for injection of the electricity generated from his Rooftop Solar PV System of capacity ____ kilowatts (kW) into the power system of Distribution Licensee and as per conditions of this agreement and in compliance with the applicable Policy / rules/ Regulations/ Codes (as amended from time to time) by the Consumer which includes-

1. Government of Gujarat Solar Power Policy 2015
2. Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010.
3. Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time
4. Central Electricity Authority (Installation and Operation of Meters) Regulation 2006.
5. Gujarat Electricity Regulatory Commission (Electricity Supply Code & Related Matters) Regulations, 2015,
6. Gujarat Electricity Regulatory Commission Distribution Code, 2004 and amendments thereto,
7. Instruction, Directions and Circulars issued by Chief Electrical Inspector from time to time.
8. CEA (Technical Standards for connectivity of the Distributed Generation) Regulations, 2013 as amended from time to time.

Both the parties hereby agree as follows:

1. Eligibility

- 1.1 Consumer shall own the Rooftop Solar PV System set up on its own premises or premises in his legal possession.
- 1.2 Consumer needs to consume electricity in the same premises where Rooftop Solar PV System is set up.

- 1.3 Consumer shall ensure capacity of Rooftop Solar not to exceed 50% of his contract load/demand/sanctioned load during initial 2 years of the connectivity agreement.
- 1.4 Consumer has to meet the standards and conditions as specified in Gujarat Electricity Regulatory Commission Regulations and Central Electricity Authority Regulations and provisions of Government of Gujarat's Solar Power Policy 2015 for being integrated into grid/distribution system.

2. Technical and Interconnection Requirements

- 2.1 Consumer agrees that his Rooftop Solar PV System and Net Metering System will conform to the standards and requirements specified in the Policy, Regulations and Supply Code as amended from time to time.
- 2.2 Consumer agrees that he has installed or will install, prior to connection of Rooftop Solar Photovoltaic System to Distribution Licensee's distribution system, an isolation device (both automatic and inbuilt within inverter and external manual relays) and agrees for the Distribution Licensee to have access to and operation of this, if required and for repair & maintenance of the distribution system.
- 2.3 Consumer agrees that in case of non availability of grid, Rooftop Solar Photovoltaic System will disconnect/isolate automatically and his plant will not inject power into the Licensee's distribution system.
- 2.4 All the equipments connected to the distribution system shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS) and installations of electrical equipments must comply with Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010 as amended from time to time.

2.5 Consumer agrees that licensee will specify the interface/inter connection point and metering point.

2.6 Consumer and licensee agree to comply with the relevant CEA Regulations in respect of operation and maintenance of the plant, drawing and diagrams, site responsibility schedule, harmonics, synchronization, voltage, frequency, flicker etc.

2.7 In order to fulfill Distribution Licensee's obligation to maintain a safe and reliable distribution system, Consumer agrees that if it is determined by the Distribution Licensee that Consumer's Rooftop Solar Photovoltaic System either causes damage to and/or produces adverse effects affecting other consumers or Distribution Licensee's assets, Consumer will have to disconnect Rooftop Solar Photovoltaic System immediately from the distribution system upon direction from the Distribution Licensee and correct the problem to the satisfaction of distribution licensee at his own expense prior to reconnection.

2.8 The consumer shall be solely responsible for any accident to human being/animals whatsoever (fatal/non-fatal/departmental/non-departmental) that may occur due to back feeding from the Rooftop Solar plant when the grid supply is off if so decided by CEI. The distribution licensee reserves the right to disconnect the consumer's installation at any time in the event of such exigencies to prevent accident or damage to man and material.

3. Clearances and Approvals

3.1 The Consumer shall obtain all the necessary statutory approvals and clearances (environmental and grid connection related) before connecting the photovoltaic system to the distribution system.

4. Access and Disconnection

4.1 Distribution Licensee shall have access to metering equipment and disconnecting means of the Rooftop Solar Photovoltaic System, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to the disconnecting means, both automatic and manual, such as a switch or breaker, Distribution Licensee may disconnect service to the premises of the Consumer.

5. Liabilities

5.1 Consumer shall indemnify Distribution Licensee for damages or adverse effects from his negligence or intentional misconduct in the connection and operation of Rooftop Solar Photovoltaic System.

5.2 Distribution Licensee shall not be liable for delivery or realization by the Consumer of any fiscal or other incentive provided by the Central/State Government.

5.3 Distribution Licensee may consider the quantum of electricity generation from the Rooftop Solar PV System owned and operated by (i) Residential and Government Building, (ii) consumers who are not utilizing 'renewable attribute' for meeting its RPO or registered under REC Mechanism, (iii) surplus energy purchased by Distribution Licensees from the Rooftop Solar project which are not under REC Mechanism under net metering arrangement towards RPO compliance.

6. Metering:

Metering arrangement shall be as per Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time.

(a) In case of Residential and Government Buildings, Bi-directional meter shall be installed of same accuracy class as installed before setting up of Rooftop Solar PV System.

(b) In case of Industrial, Commercial and other consumers-

- (i) Type-1 consumer (consumers not utilizing 'Renewable' attribute for RPO or REC)-Bi-directional meter shall be installed of same accuracy class as installed before setting up of Rooftop Solar PV System.
- (ii) Type-2 (a) & (b) (consumers utilizing both 'renewable attribute' and 'energy attribute') ABT compliant meter having 15 minute integration shall be installed.

7. Commercial Settlement

All the commercial settlements under this agreement shall be as per Government of Gujarat's Solar Power Policy 2015 and Order No. 1 of 2015 dated 17.08.2015 of the Gujarat Electricity Regulatory Commission and any subsequent orders in this regard. The commercial settlement will be as follows:

(A) Residential consumers and Government Building

- (i) In case of net import of energy by the consumer from distribution grid during billing cycle, the energy consumed from Distribution Licensee shall be billed as per applicable tariff to respective category of consumers as approved by the Commission from time to time. The energy generated by Rooftop Solar PV System shall be set off against units consumed (not against load/demand) and consumer shall pay demand charges, other charges, penalty etc as applicable to other consumers.
- (ii) In case of net export of energy by the consumer to distribution grid during billing cycle, Distribution Licensee shall purchase surplus power, after giving set off against consumption during the billing period, at the Average Pooled Power Purchase Cost (APPC) as determined by the Commission for the year in which the Rooftop Solar PV System is commissioned over the life of the system i.e. 25 years. Such surplus purchase shall be utilized for

meeting RPO of Distribution Licensee. However, fixed / demand charges, other charges, penalty etc shall be payable as applicable to other consumers.

(B) For Industrial, Commercial and other consumers

(a) Type-1 consumer (consumers not utilizing 'Renewable' attribute for RPO or REC)

(i) in case of net import of energy by the consumers from distribution grid during billing cycle, the energy consumed from Distribution Licensee shall be billed as per applicable tariff to respective category of consumers as approved by the Commission from time to time. The energy generated by Rooftop Solar PV System shall be set off against units consumed (not against load/demand) and consumer shall pay demand charges, peak charges, other charges, penalty etc as applicable to other consumers of respective category.

(ii) In case of net export of energy by the consumer to distribution grid during billing cycle, Distribution Licensee shall purchase surplus power, after giving set off against consumption during the billing period, at the Average Pooled Power Purchase Cost (APPC) determined by the Commission for the year in which Rooftop Solar PV System is commissioned, over the life of the system i.e. 25 years. Such surplus purchase shall be utilized for meeting RPO of Distribution Licensee. However, fixed / demand charges, peak charges, other charges, penalty etc shall be payable as applicable to the respective category of consumers.

(b) Type-2 (a) - consumers utilizing renewable attribute to meet its RPO

(i) Energy accounting shall be undertaken on 15 minute basis. In case of net import of energy by the consumer from distribution grid, the energy consumed from Distribution Licensee shall be billed as per applicable tariff to respective category of consumers as approved by the Commission from time to time. The energy generated by Rooftop Solar PV System shall be set off against units consumed (not against load/demand) and consumer shall pay demand charges, peak charges, other charges, penalty etc. as applicable to the respective category of consumers.

(ii) In case of net export of power on 15 minutes basis after giving set off against consumption, Distribution Licensee shall purchase such surplus power at the APPC determined by the Commission for the year in which the Rooftop Solar PV System is commissioned over the life of the system i.e. 25 years. Such surplus purchase shall be utilized for meeting RPO of Distribution Licensee. However, fixed / demand charges, peak charges, other charges, penalty etc. shall be payable as applicable to the respective category of consumers.

(c) Type-2 (b) - consumers utilizing renewable attribute under REC Mechanism

(i) Energy accounting shall be undertaken on 15 minute basis. In case of net import of energy by the consumer from distribution grid, the energy consumed from Distribution Licensee shall be billed as per applicable tariff to respective category of consumers as approved by the Commission from time to time. The energy generated by Rooftop Solar PV System shall be set off against units consumed (not against load/demand) and consumer shall pay demand charges, peak charges, other charges, penalty etc. as applicable to the respective category of consumers.

(ii) In case of net export of power on 15 minutes basis after giving set off against consumption, Distribution Licensee shall purchase such surplus power at the 85% of APPC determined by the Commission for the year in which the Rooftop Solar PV System is commissioned over the life of the system i.e. 25 years. However, fixed / demand charges, peak charges, other charges, penalty etc shall be payable as applicable to the respective category of consumers.

8. Connection Costs

8.1 The Consumer shall bear all costs related to setting up of Rooftop Solar Photovoltaic System including metering and inter-connection. The Consumer agrees to pay the actual cost of modifications and upgrades to the service line, cost of up gradation of transformer to connect photovoltaic system to the grid in case it is required.

9. Inspection, Test, Calibration and Maintenance prior to connection

Before connecting, Consumer shall complete all inspections and tests finalized in consultation with the (Name of the Distribution license) and if required Gujarat Energy Transmission Corporation Limited (GETCO) to which his equipment is connected. Consumer shall make available to DISCOM all drawings, specifications and test records of the project or generating station as the case may be.

10. Records:

Each Party shall keep complete and accurate records and all other data required by each of them for the purposes of proper administration of this Agreement and the operation of the Rooftop Solar PV System.

11. Dispute Resolution:

- 11.1 All disputes or differences between the Parties arising out of or in connection with this Agreement shall be first tried to be settled through mutual negotiation, promptly, equitably and in good faith.
- 11.2 In the event that such differences or disputes between the Parties are not settled through mutual negotiations within sixty (60) days or mutually extended period, after such dispute arises, then for
 - (a) any dispute in billing pertaining to energy injection and billing amount, it would be settled by the Consumer Grievance Redressal Forum and Electricity Ombudsman.
 - (b) any other issues pertaining to the Regulations and its interpretation; it shall be decided by the Gujarat Electricity Regulatory Commission following appropriate prescribed procedure.

12. Termination

- 12.1 The Consumer can terminate agreement at any time by giving Distribution Licensee 90 days prior notice.
- 12.2 Distribution Licensee has the right to terminate Agreement with 30 days prior written notice, if Consumer commits breach of any of the terms of this Agreement and does not remedy the breach within 30 days of receiving written notice from Distribution Licensee of the breach.
- 12.3 Consumer shall upon termination of this Agreement, disconnect the Rooftop Solar Photovoltaic System from Distribution Licensee's distribution system within one week to the satisfaction of Distribution Licensee.

Communication:

The names of the officials and their addresses, for the purpose of any communication in relation to the matters covered under this Agreement shall be as under:

In respect of the (Name of distribution licensee): * Additional C.E.(R&C) <input type="checkbox"/> Gujarat Vij Company Limited/Equivalent Authority,	In respect of the Consumer (_____)
--	--

Authorised person by the distribution licensees ...

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their authorised officers, and copies delivered to each Party, as of the day and year herein above stated.

FOR AND ON BEHALF OF Distribution Licensee Authorized Signatory WITNESSES 1. _____ (_____) 2. _____ (_____)	FOR AND ON BEHALF OF THE PROJECT OWNER Authorized Signatory WITNESSES 1. _____ (_____) 2. _____ (_____)
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Annexure - VInverter Standards

Inverter should comply with IEC61683/IS61683 for efficiency and measurements and should comply with IEC 60068-2(1,2,14,30)/ Equivalent BIS Standard for environmental testing.

Inverter should supervise the grid condition continuously and in the event of grid failure(or)under voltage(or) overvoltage, Solar System should be disconnected by the circuit Breaker/Auto switch provided in the inverter and shall comply with requirements specified at Regulation 8 of these Regulations.

Harmonics Standards

As per the standard IEEE519, the permissible individual harmonics level shall be less than 3% (for both voltage and current harmonics) and Total Harmonics Distortion (THD) for both voltage and current harmonics of the system shall be less than 5%.

Technical and interconnection requirements Parameter

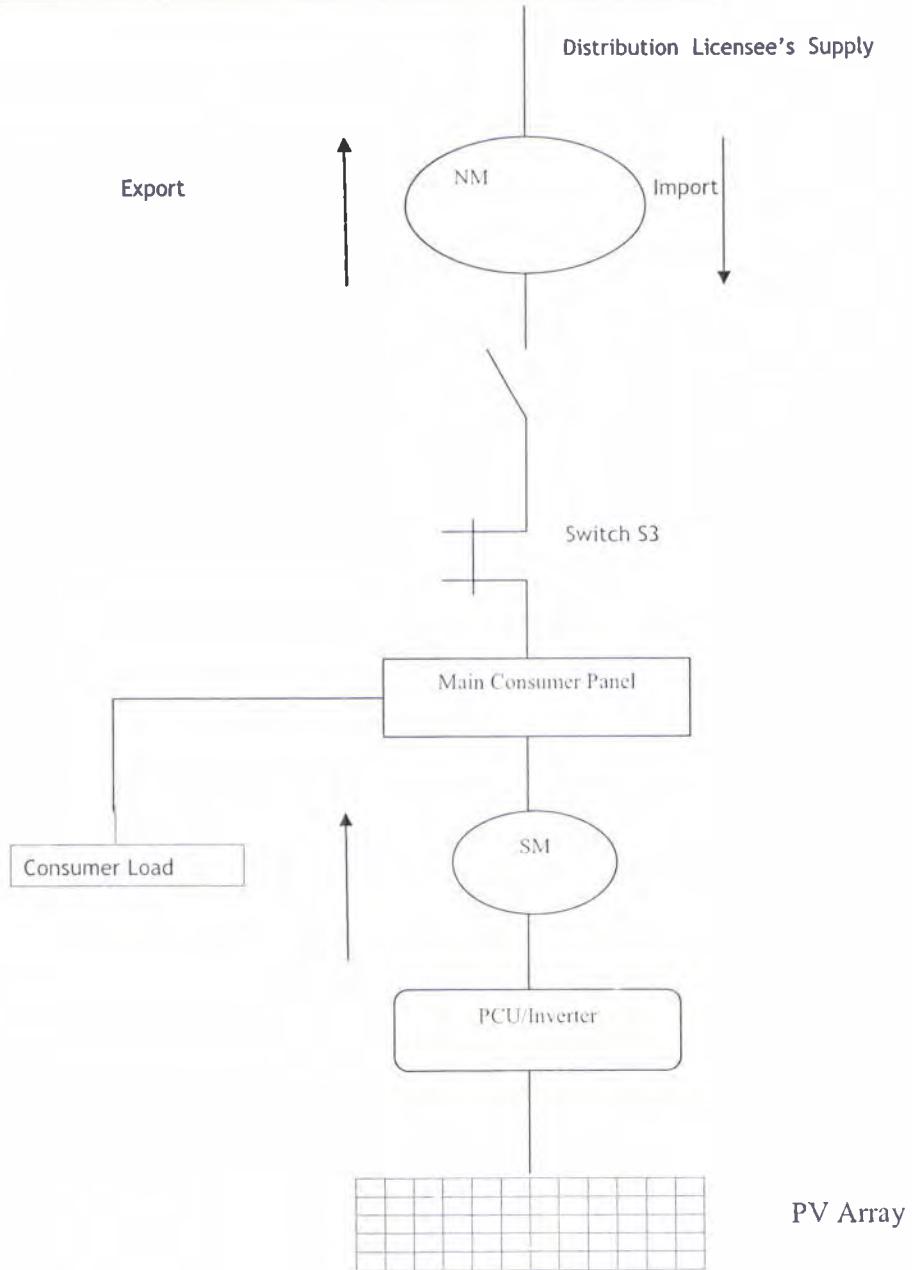
Parameter	Reference (as amended from time to time)	Requirement
Overall conditions of service	State Distribution/Supply Code	Compliance with the terms and conditions of supply.
Overall Grid Standards	Central Electricity Authority (Grid Standards) Regulations 2010	Compliance with Grid standards as regards the frequency, voltage and protection coordination.
Meters	Central Electricity Authority (Installation & Operation of Meters) Regulations, 2006	Compliance with the specifications of the meters.

Parameter	Reference (as amended from time to time)	Requirement
Safety and supply	Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations,2010 as amended from time to time	Compliance with safety provisions for electrical installations and apparatus with voltage below and above 650volts.
Harmonic Requirements Harmonic Current	IEEE519 CEA (Technical Standards for Connectivity to the Grid)Regulations,2007 as amended from time to time	The Total Harmonic Distortion (THD) for voltage at the interconnection point should not exceed 5%. For the current distortion limits, the Total Demand Distortion (TDD) in terms of ratio of available short circuit current to the demand current(I_{sc}/IL) should remain within limits specified for various harmonics for different TDD values.
Synchronization	CEA (Technical Standards for Connectivity to the Grid)Regulations, 2007 as amended from time to time	Photo Voltaic system must be equipped with a grid frequency synchronization device. Every time the generating station is synchronized to the electricity system, it shall not cause voltage fluctuation greater than +/-5% at point of inter connection.

Parameter	Reference (as amended from time to time)	Requirement
Voltage	CEA (Technical Standards for Connectivity to the Grid)Regulations, 2007 as amended from time	The voltage-operating window should minimize nuisance tripping and should be within operating range of 80% to 110% of the nominal connected voltage. The photovoltaic system must isolate itself from the grid within a clearing time of 2 seconds.
Flicker	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time.	Operation of Photovoltaic system should not cause voltage flicker in excess of the limits stated in IEC 61000 standards as follows: <u>Short-term flicker (Pst):</u> The flicker severity evaluated over a short period of time (10 minutes) should be ≤ 1 . <u>Long-term flicker (Plt):</u> The flicker severity evaluated over a long period of time (typically 2 hours) should be ≤ 0.65 .
Frequency	CEA (Technical Standards for Connectivity to the Grid)Regulations, 2007 as amended from time	There should be over and under frequency trip functions with a clearing time of 0.2 seconds, when the Distribution system frequency deviates outside the specified conditions (50.5 Hz on upper side and 47.5 Hz on lower side).

Parameter	Reference (as amended from time to time)	Requirement
DC injection	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time.	Photovoltaic system should not inject DC power more than 0.5% of full rated output at the inter connection point or 1% of rated inverter output current into distribution system under any Operating conditions.
Power Factor	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time	When the output of the inverter is greater than 50%, the power output from the inverter shall have a lagging power factor of greater than 0.9.
Islanding and Disconnection	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time	The photovoltaic system must island/disconnect itself within IEC standard stipulated time in the event of fault, voltage or frequency variations.
Overload and Overheat	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time	The inverter should have the facility to automatically switch off in case of overload or overheating and should restart when normal conditions are restored.
Paralleling Device	CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time	Paralleling device of photovoltaic system shall be capable of withstanding 220% of the normal voltage at the interconnection point.

Schematic Arrangement for interconnection of Rooftop & Small PV Solar Power Plant with the Distribution Licensee's/Distribution Licensee's grid



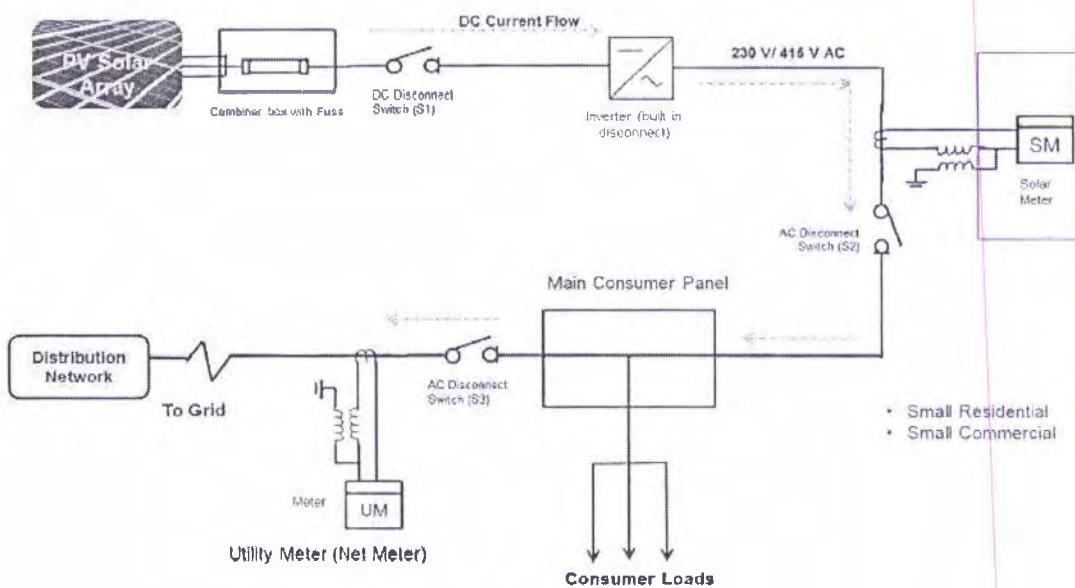
**Normally, Solar Generation shall be connected with Grid.
When grid fails, Inverter controlled Switch S3 Opens and
on restoration of grid S3 Closes.**

Abbreviations:

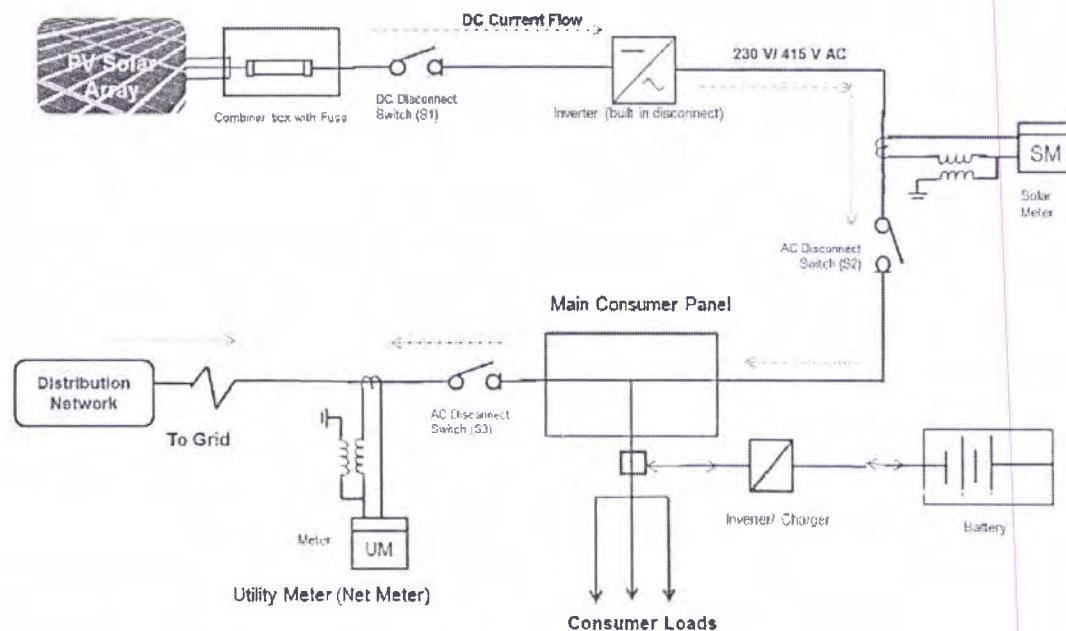
NM: Net Meter, SM: Solar Meter, PCU: Power Conditioning Unit

Net Metering configuration options

(1) Two meter configuration without storage



(2) Two meter configuration with storage



Annexure - VI**Specification for meters for net metering****(a) Meter for Solar Generation Measurements:****Solar Meter Major Technical Parameters**

Sr. No.	Technical Parameters	Connectivity at 415 V & below voltage level		
		Whole current meters		CT operated
1.	Applicability	Solar plant capacity upto 6 kW	Solar plant capacity above 6 kW and upto 15 kW	Solar Plant Capacity above 15 kW and upto 50 kW
2.	Number of phases and wires	Single Phase,2 Wire	Three Phase, 4Wire	ThreePhase,4 Wire
3.	Measurand(s)	kWh	kWh	kWh, kVAh, kVA, PF
4.	Standard Voltage and frequency	240 V, 50±5%	3X240V(P- N),415V(P- P) 50±5%	3X240V(P-N), 415V(P-P) 50±5%
5.	Current Rating	5-30	10-60	5 Amp
6.	Accuracy class	1.0	1.0	0.5S
7.	Indian Standard or IEC to which conforming	IS 13779-1999	IS 13779-1999	IS 14697,IS13779
8.	Import-export feature	Only Import	Only Import	Only Import
9.	Communication Port/Protocol	Optical/ DLMS	Optical, RS-232/DLMS	Optical,RS-232 / DLMS

(b) Meter for Net-Metering Measurements:

Net-Meter Major Technical Parameters

Sr. No.	Technical Parameters	Connectivity at 415 V & below voltage level		
		Whole current meters		CT operated
1.	Applicability	Upto 6 kW connected load	Above 6 kW and upto 18.65 kW connected load	Above 18.65 kW and upto 50 kVA contract demand
2.	Number of phases and wires	Single Phase, 2 Wire	Three Phase, 4 Wire	Three Phase, 4 Wire
3.	Measurand(s)	kWh	kWh	kWh, kVAh, kVA, PF
4.	Standard Voltage and frequency	240 V, 50±5%	3X240 V (P-N), 415 V (P- P)	3X240 V (P-N), 415 V (P-P) 50±5%
5.	Current Rating	10-60	10-60	1 Amp
6.	Accuracy class	1.0	1.0	0.5S
7.	Indian Standard or IEC to which conforming	IS 13779-1999	IS 13779-1999	IS 14697, IS 13779
8.	Import-export feature	Import & Export	Import & Export	Import & Export
9.	Communication Port/ Protocol	Optical/ DLMS	Optical, RS-232/ DLMS	Optical, RS-232/ DLMS

Extra No. 369

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Separate paging is given to this Part in order that it may be filed as a Separate Compilation.

PART IV-C

Statutory Rules and Orders (Other than those published in Parts I, I-A and I-L) made by Statutory Authorities other than the Government of Gujarat including those made by the Government of India, the High Courts, the Director of Municipalities, the Commissioner of Police, the Director of Prohibition and Excise, the District Magistrates and the Election Commission, Election Tribunals, Returning Officers and other authorities under the Election Commission.

GUJARAT ELECTRICITY REGULATORY COMMISSION

GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) (FIRST AMENDMENT) REGULATIONS, 2017

NOTIFICATION: NO. 2 OF 2017

In exercise of Powers conferred under Section 61, 86 and 181 of the Electricity Act, 2003 (Act No. 36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Gujarat Electricity Regulatory Commission hereby makes the following Regulations, to amend Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 (hereinafter referred to as "The Principal Regulations") namely:

1) Short Title Extent and Commencement:

- (i) These Regulations shall be called the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) (First Amendment) Regulations, 2017.
- (ii) These Regulations shall extend to the whole of the State of Gujarat.

- 2) These Regulations shall come into force with effect from the date of their publication in the Official Gazette.

3) Amendment in Regulation 6.2 of the Principal Regulations:

The first para of Regulation 6.2 shall stand amended as under:

The maximum Rooftop Solar PV System capacity to be installed at any Eligible Consumer's premises except Residential Consumers shall be upto a maximum of 50% of consumer's sanctioned load/contract demand; whereas in case of Residential Consumers, the Rooftop Solar PV System capacity shall be irrespective of their sanctioned load/contract demand.

4) Amendment in Regulation 7 of the Principal Regulations:

First bullet point of Sub Activity (3) of Regulation 7 regarding the capacity of the Solar Rooftop plant to be installed at Consumer's premises stands amended as under:-

Sr. No.	Activity	Sub Activity	Duration in day(s)
3.	Application to Distribution Licensee	<p>Applicant shall submit application in the prescribed format along with following compliance and documents to Distribution Licensee</p> <ul style="list-style-type: none"> • Capacity of Solar Rooftop to be installed (Subject to Regulation 6.2) 	

5) Amendment in Clause 1.3 of Annexure – IV, Inter connection Agreement between Distribution Licensee and Solar Rooftop PV project owner, Net Metering Inter Connection Agreement of the Principal Regulations:

Clause 1.3 of Annexure – IV, Inter connection Agreement between Distribution Licensee and Solar Roof top PV project owner, Net Metering Inter Connection Agreement of the principal Regulations shall be amended as under:

Consumer other than Residential Consumer shall ensure capacity of Rooftop Solar not to exceed 50% of his contract load/demand/sanctioned load during initial 2 years of the connectivity agreement; whereas in case of Residential Consumers, the Rooftop Solar PV System capacity shall be irrespective of their sanctioned load/contract demand.

ROOPWANT SINGH, IAS
 Secretary,
 Gujarat Electricity Regulatory Commission.

Date: 6/10/2017.

Place: Gandhinagar.

GUJARAT ELECTRICITY REGULATORY COMMISSION (GERC)

GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) (SECOND AMENDMENT) REGULATIONS, 2020

NOTIFICATION NO. 2 OF 2020

In exercise of the powers conferred under Sections 61, 86 and 181 of the Electricity Act, 2003 (Act No. 36 of 2003) and all other powers enabling it in this behalf, and after previous publications, the Gujarat Electricity Regulatory Commission hereby makes the following Regulations, to amend the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 (hereinafter referred to as "Principal Regulations") namely:

1) **Short Title Extent and Commencement:**

- (i) These Regulations shall be called the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) (Second Amendment) Regulations, 2020.
- (ii) These Regulations shall extend to the whole of the State of Gujarat.

2) These Regulations shall come into force with effect from the date of their publication in the Official Gazette.

3) **Amendment in Regulation 2.1 of the Principal Regulations:**

(a) Addition of New Definition clause “Micro, Small and Medium (Manufacturing) Enterprise or MSME (Manufacturing)” in Regulation 2.1 of the Principal Regulations:

The following new definition clause shall stand inserted in Regulation 2.1 after existing Regulation 2.1(o) of the Principal Regulations as Regulation 2.1 (oa):

(oa) “Micro, Small and Medium (Manufacturing) Enterprise or MSME (Manufacturing) Enterprise” shall mean a registered enterprise as per the definition of Micro, Small and Medium Manufacturing Enterprises and in accordance with the provisions of the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006 as amended from time to time.

As per Micro, Small and Medium Enterprises Development (MSMED) Act, 2006 the MSME (Manufacturing) category is defined as – The enterprises engaged in manufacture or production of goods pertaining to any industry specified in first schedule to Industries (Development and Regulation) Act, 1951 or employing plant and machinery in the process of value addition to the final product having a distinct name or character or use. The Manufacturing Enterprises are defined in terms of Investment in Plant and Machinery as under:

TYPE	MANUFACTURING
	Investment in Plant & Machinery
Micro Enterprises	Not more than Rs. 25 Lakh
Small Enterprises	More than Rs. 25 Lakh but does not exceed Rs. 5 Crore
Medium Enterprises	More than Rs. 5 Crore but does not exceed Rs. 10 Crore

4) **Amendment in Regulation 5 of the Principal Regulation**

The second para of Regulation 5 of the Principal Regulations shall stand amended as under:

Provided that the cumulative capacity to be allowed at a particular distribution transformer shall not exceed capacity of the distribution transformer;

5) **Amendment in Regulation 6.2 of the Principal Regulations read with First Amendment:**

(a) **The first para of Regulation 6.2 of the Principal Regulations as well as the amended Regulations (First Amendment) shall stand amended as under:**

The maximum Rooftop Solar PV System capacity to be installed at any Eligible Consumer's premises except Residential Consumers (including connections for common utilities such as water works, elevators, common passage lights, street lights, garden, gym, swimming pool etc. which are being charged residential tariff) and MSME (Manufacturing) Enterprise shall be upto a maximum of 50% of consumer's sanctioned load/contract demand; whereas in case of Residential Consumers (including connections for common utilities such as water works, elevators, common passage lights, street lights, garden, gym, swimming pool etc. which are being charged residential tariff) and MSME (Manufacturing) Enterprise, the Rooftop Solar PV System capacity shall be irrespective of their sanctioned load/contract demand.

6) **Amendment in Regulation 7 of the Principal Regulations:**

In this Regulation wherever the word 'GEDA' appears, the same shall stand replaced by 'GEDA or agency designated by the Government of Gujarat'.

In table at Sr.No. 11 Subactivity no.5 shall stand replaced as under:

"5. Installation of proper protection system (inverter shall have anti islanding feature) along with second line of protection such as no volt relay (for Solar PV system above 10 Kw), applicant has to pay connectivity charges and execute connectivity agreement with Distribution Licensee"

7) Amendment in Regulation 9 of the Principal Regulations:

Regulation 9 "Energy Accounting and Settlement" of the Principal Regulations shall stand replaced as under:

9) Energy Accounting and Settlement

Any energy injected prior to commissioning shall be deemed as inadvertent power. The consumer/Solar PV owner is not eligible to receive any monetary compensation for such inadvertent power.

For each billing period, the licensee shall show the quantum of electricity injected by Eligible Consumer/Solar PV system in the grid, electricity supplied by the distribution licensee, net billed electricity for payment by the consumer and net exported energy after adjustment against the consumption separately.

9.1 For Residential and Government Consumers

In the event the electricity supplied by the distribution licensee

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during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise an invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity shall be compensated by the concerned Distribution Licensee at the rate of Rs. 2.25 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time for the whole life of the Rooftop Solar PV System.

Banking of energy shall be allowed within one billing cycle of the consumer.

The distribution licensee in addition to consumer tariff shall be eligible to raise an invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

9.2 For Industrial other than MSME (Manufacturing) Enterprise, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and not registered under REC mechanism

In the event the electricity supplied by the distribution licensee during any billing period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System, the distribution licensee shall raise an invoice for the net electricity consumption at the consumer's prevailing tariff;

In the event the electricity injected exceeds the electricity consumed during the billing period, such excess injected electricity after adjustment of consumption shall be compensated by the concerned Distribution Licensee at the rate Rs. 1.75 per unit or

the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time for whole life of the Rooftop Solar PV System;

Banking of energy shall be allowed within one billing cycle of the consumer, wherein set off may be given against energy consumed at any time of the billing cycle. However, peak charges shall be applicable for consumption during peak hours.

The distribution licensee in addition to consumer tariff shall be eligible to raise an invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

9.3 For MSME (Manufacturing) Enterprise Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and not registered under REC mechanism.

The energy accounting shall be carried out on 15 minutes time block basis

In the event the electricity injected by the Rooftop Solar PV System exceeds the electricity consumed during any 15 minutes time block resulting in net energy injection in to the grid, such excess injection after in to the grid shall be compensated by the concerned Distribution Licensee at the rate of Rs. 1.75 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time for whole life of the Rooftop Solar PV System;

In the event the electricity consumption by the eligible consumer

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during any 15 minutes time block period exceeds the electricity injected by the Eligible Consumer's Rooftop Solar PV System resulting in energy supplied by the distribution licensee, the distribution licensee shall raise an invoice for the aggregated sum of such electricity supply in each 15 minutes time block during the billing period at the consumer's prevailing tariff.;

The distribution licensee in addition to consumer tariff shall be eligible to raise an invoice for any other charges as allowed by the Gujarat Electricity Regulatory Commission from time to time.

However, if the installation of Roof Top Solar PV by the MSME (Manufacturing Enterprise) consumer is within 50% of the Contracted capacity, then it shall be governed by Regulation 9.2 as above.

9.4 For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Rooftop Solar PV System and utilizing the 'renewable attribute' for RPO compliance.

The energy accounting shall be carried out on 15 minutes time block basis.

In the event the electricity injected by the Rooftop Solar PV System exceeds the electricity consumed during any 15 minutes time block resulting in net energy injection in to the grid, such excess injection after adjustment of consumption in 15 minutes time block shall be compensated by the concerned Distribution Licensee at the rate of Rs. 1.75 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time

to time for whole life of the Rooftop Solar PV System;

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In the event the electricity consumption by the eligible consumer during any 15 minutes time block period exceeds the electricity generated by the Eligible Consumer's Rooftop Solar PV System resulting in energy supplied by the distribution licensee, the distribution licensee shall raise an invoice for the aggregated sum of such electricity supply in each 15 minute time block during the billing period at the consumer's prevailing tariff.

9.5 For Industrial, Commercial and Other Consumers utilizing the 'energy attribute' of the generated solar energy from the Roof top Solar PV System and utilizing the 'renewable attribute' for REC.

The energy accounting shall be carried out on 15 minutes time block basis.

In the event the electricity injected by the Rooftop Solar PV System exceeds the electricity consumed during any 15 minutes time block resulting in net energy injection in to the grid, such excess injection after adjustment of consumption in 15 minutes time block shall be compensated by the concerned Distribution Licensee at the rate of Rs. 1.50 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time for whole life of the Rooftop Solar PV System;

In the event the electricity consumption by the eligible consumer during any 15 minutes time block period exceeds the electricity injected by the Eligible Consumer's Rooftop Solar PV System resulting in energy supplied by the distribution licensee, the

distribution licensee shall raise an invoice for the aggregated⁷¹ sum of such electricity supply in each 15 minute time block during the billing period at the consumer's prevailing tariff.

- 9.6 The energy accounting and settlement for wheeling power from solar projects other than Rooftop set up for self consumption purpose shall be in line with the provision at Regulation 9.2 to Regulation 9.5.
- 9.7 In the event of any amount payable by the concerned DISCOM at the end of billing cycle, the same shall be shown as credit and to be carried forward in the next billing cycle. At the end of Financial Year, if the credit amount for the consumer is more than Rs. 100/-, such credit amount shall be paid by the concerned DISCOM to the consumer. In case the credit amount at the end of the Financial Year is less than Rs. 100/-, the same shall be carried forward in the next billing cycle of the following Financial Year.

8) **Amendment in Regulation 13.5 of the Principal Regulations:**

Para 13.5 of the Principal Regulations, shall be replaced with the following para:

"The main Solar Meter and Net Meter shall be of 1.0 and 0.5S or better class accuracy as per Table (a) 'Meter for Solar Generation Measurements' and Table (b) 'Meter for Net Metering Measurements' respectively at Annexure VI and with facility for recording meter readings using Meter Reading Instrument (MRI) or wireless equipment. Check Meters shall be mandatory for Rooftop Solar PV Systems having capacity more than 20 kW. For installations size of less than or equal to 20 kW, the Solar Check

Meters would be optional.

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Provided that the cost of new/additional meter (s) shall be borne by the Eligible Consumer and that such meter(s) shall be tested and installed by the distribution licensee.

The meters installed shall be inspected, verified for the accuracy and sealed by the distribution licensee in the presence of the representative of the consumer.

Provided that in case the Eligible Consumer is under the ambit of time of day tariff, meters capable of recording time of day consumption/generation shall be installed."

9)

Deletion of both the diagrams under "Net Metering configuration options" i.e. (1) Two meter configuration without storage and (2) Two meter configuration with storage of the Principal Regulations:

The diagrams under "Net Metering configuration options" of the Principal Regulations i.e. (1) Two meter configuration without storage and (2) Two meter configuration with storage shall stand deleted.

10)

Amendment in Clauses 7 (A) (ii) of Annexure IV to Principal Regulations pertaining to Interconnection Agreement between Distribution Licensee and Solar Rooftop PV Project Owner.

The above Clause of Annexure- IV to the Principal Regulations, shall stand replaced with the following para:

(ii) "In case of net export (net injection) of energy by the consumer to distribution grid during billing cycle, the Distribution Licensee shall compensate for surplus power, after giving set off against

consumption during the billing period, at the rate of Rs. 2.25 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time, over the life of the Rooftop Solar PV system i.e. 25 years. The entire Solar energy generation of such consumer shall be utilized for meeting the RPO of that Distribution Licensee. However, fixed / demand charges, other charges, penalty, etc. shall be payable as applicable to the respective category of consumers.”

11) **Amendment in Clause 7 (B) (a) (ii) of Annexure IV to Principal Regulations pertaining to Interconnection Agreement between Distribution Licensee and Rooftop PV Project Owner.**

The above Clause of Annexure- IV to the Principal Regulations, shall be replaced with the following para:

(ii) “In case of net export (net injection) of energy by the consumer to distribution grid during billing cycle, the Distribution Licensee shall compensate for surplus power, after giving set off against consumption during the billing period, at the rate of Rs. 1.75 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time, over the life of the Rooftop Solar PV system i.e. 25 years. The entire Solar energy generation of such consumer shall be utilized for meeting the RPO of that Distribution Licensee. However, fixed / demand charges, peak charges, other charges, penalty, etc. shall be payable as applicable to the respective category of consumers.”

12) **Addition of new Clause 7(B)(a)(iii) after Clause 7(B)(a)(ii) of Annexure IV to Principal Regulations pertaining to Interconnection Agreement between Distribution Licensee and**

(iii) "In case of installation of Roof Top Solar PV by the MSME(Manufacturing Enterprise) consumer is within 50% of Contracted Demand, then it shall be governed by Clause (i) & (ii) as above.

In case of installation of Roof Top Solar PV by the MSME (Manufacturing Enterprise) consumer is more than 50% of Contracted Demand, then the energy accounting shall be carried out on 15 minutes time block basis. In case of net export (net injection) of power on 15 minutes basis after giving set off against consumption, the Distribution Licensee shall compensate for such surplus power at the rate of Rs. 1.75 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time, over the life of the Rooftop Solar PV system i.e. 25 years. The entire Solar energy generation of such consumer shall be utilized for meeting the RPO of that Distribution Licensee. However, fixed / demand charges, peak charges, other charges, penalty, etc. shall be payable as applicable to the respective category of consumers."

13) **Amendment in Clause 7 (B) (b) (ii) of Annexure IV to Principal Regulations pertaining to Interconnection Agreement between Distribution Licensee and Solar Rooftop PV Project Owner.**

The above Clause of Annexure- IV to the Principal Regulations, shall be replaced with the following para:

(ii) "In case of net export (net injection) of power on 15 minutes basis after giving set off against consumption, the Distribution Licensee

shall compensate for such surplus power at the rate of Rs.⁷⁵ 1.75 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time, over the life of the Rooftop Solar PV system i.e. 25 years. Such surplus energy purchased by the Distribution Licensee shall be utilized for meeting the RPO of that Distribution Licensee. However, fixed / demand charges, peak charges, other charges, penalty, etc. shall be payable as applicable to the respective category of consumers."

14) Amendment in Clauses 7 (B) (c) (ii) of Annexure IV to Principal Regulations pertaining to Interconnection Agreement between Distribution Licensee and Solar Rooftop PV Project Owner.

The above Clause of Annexure- IV to the Principal Regulations, shall be replaced with the following para:

(ii) "In case of net export (net injection) of power on 15 minutes basis after giving set off against consumption, the Distribution Licensee shall compensate for such surplus power at the rate of Rs. 1.50 per unit or the rate, if any, specified by the Commission for Surplus Injection Compensation (SIC) from time to time, over the life of the Rooftop Solar PV system i.e. 25 years. However, fixed / demand charges, peak charges, other charges, penalty, etc. shall be payable as applicable to the respective category of consumers."

15) Amendment in Clause 1.3 of Annexure IV of the Principal Regulations:

The existing Clause 1.3 of Annexure IV to the Principal Regulations shall

stand replaced with the following clause:

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1.3 "Consumers other than Residential Consumers (Residential Consumers shall be including the connections for common utilities such as water works, elevators, common passage lights, street lights, garden, gym, swimming pool etc. which are being charged Residential Tariff) and MSME (Manufacturing Enterprise) shall ensure capacity of Rooftop Solar not to exceed 50% of his contract load/demand/sanctioned load during the currency of the connectivity agreement.

**Sd/-
[Roopwant Singh, IAS]
Secretary
Gujarat Electricity Regulatory Commission
Gandhinagar, Gujarat**

**Date: 23/01/2020.
Place: Gandhinagar.**

GUJARAT ELECTRICITY REGULATORY COMMISSION (GERC)

GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) (THIRD AMENDMENT) REGULATIONS, 2022

NOTIFICATION NO. 02 OF 2022

In exercise of the powers conferred under Sections 61, 86 and 181 of the Electricity Act, 2003 (Act No. 36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Gujarat Electricity Regulatory Commission hereby makes the following Regulations, to amend the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 (hereinafter referred to as "Principal Regulations") namely:

- 1) **Short Title Extent and Commencement:**
 - (i) These Regulations shall be called the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) (Third Amendment) Regulations, 2022.
 - (ii) These Regulations shall extend to the whole of the State of Gujarat.
- 2) These Regulations shall come into force with effect from the date of their publication in the Official Gazette.
- 3) **Amendment in Regulation 2.1 of the Principal Regulations:**
 - (a) The definition clause Regulation 2.1 (i) of the Principal Regulations shall be substituted as under:

“Contracted load” or “Sanctioned load” or “Contracted demand” means the maximum demand in kW, kVA or HP, agreed to be supplied by the Distribution Licensee and indicated in the agreement executed between the Distribution Licensee and the Consumer and the expression “load” shall be construed accordingly;

- (b) In the definition 2.1 (l) “Eligible Consumer” the words “or Third Party Sale” shall be inserted after the word “given that such system is self owned”.
- (c) Addition of New Definition clause “Gross Meter” and “Gross Metering” in Regulation 2.1 of the Principal Regulations:

The following new definition clauses shall stand inserted in Regulation 2.1 after existing Regulation 2.1(m) of the Principal Regulations as Regulation 2.1 (ma) and (mb):

(ma) “Gross Meter” means unidirectional energy meter installed at the point at which the electricity generated by solar energy system of the eligible consumer injects into the grid of Distribution Licensee.

(mb) “gross-metering” means a mechanism whereby the total solar energy generated from Grid Interactive Rooftop Solar Photovoltaic system of a Prosumer and the total energy consumed by the Prosumer are accounted separately through appropriate metering arrangements and for the billing purpose, the total energy consumed by the Prosumer is accounted at the applicable retail tariff and total solar power generated is accounted for at feed-in-tariff determined by the Commission;

- (d) The definition of “net-metering” 2(p) provided in the principal Regulations is substituted by following definitions:

2(p) “net-metering” means a mechanism whereby solar energy exported to the Grid from Grid Interactive Rooftop Solar Photovoltaic System of a Prosumer is deducted from energy imported from the Grid in units (kWh) to arrive at the net imported or exported energy and the net energy import or export is billed or credited or carried-over by the distribution licensee on the basis of the applicable retail tariff by using a single bidirectional energy meter for net-metering at the point of supply;’.

(e) The following new definition clause shall stand inserted in Regulation 2.1 after existing Regulation 2.1(s) of the Principal Regulations as Regulation 2.1 (sa):

(sa) “prosumer” means a person who consumes electricity from the grid and can also inject electricity into the grid for Distribution Licensee, using same point of supply;

(f) The following new definition clause shall stand inserted in Regulation 2.1 after existing Regulation 2.1(x) of the Principal Regulations as Regulation 2.1 (xa):

(xa) “Third party” for this Regulations means a developer setting up solar project on the Rooftop/premises of a consumer/prosumer for generation and sale of such power to the consumer/prosumer in the same premises.

4) **Amendment in Regulation 3.1 of Regulation 3 (Scope and Application) of the Principal Regulation:**

The words “or from solar power plant set up by third party” shall be added after the words “who are receiving electricity from its own generating source” and at the end of the said regulations, i.e. after the words “situated

in Distribution Licensee area”, the sentence “or prosumer who consumes electricity from the grid and injects electricity from its Solar Power System into the grid for supply to Distribution Licensee using same point of supply” shall be added.

5) **Amendment in Regulation 4 (General Principles) of the Principal Regulation:**

The word “/gross metering” shall be added in first para of the Regulation 4 of Principal Regulations after words “The Distribution Licensee shall provide the net metering” and the word “/prosumer” shall be added between the words “arrangement to the eligible consumer” and the words “who intends to install grid connected Rooftop Solar PV System”.

In first proviso of Regulation 4 the word “/prosumer” shall be added between the word “consumer” and “is eligible to install the grid connected Rooftop Solar PV System”.

6) **Amendment in Regulation 5 (Capacity Targets for Distribution Licensee) of the Principal Regulation:**

The word “/gross metering arrangement” shall be added in first para of the Regulation 5 of Principal Regulations after words “The Distribution Licensee shall provide the net metering arrangement” and the word “/prosumers” shall be added after the word “Eligible consumers”.

7) Amendment in Regulation 6 titled “Eligible Consumer and individual project capacity” shall be substituted by the title “Eligible Consumer/Prosumer and individual project capacity”.

8) **Amendment in Regulation 6.1 (Eligible Consumer and Individual project capacity” of the Principal Regulations:**

From the sentence "In addition to the general eligibility defined in Regulation 2.1 (l) of these Regulations, the Eligible Consumer for the Rooftop Solar PV System with net metering shall:", the words "with net metering" shall stand deleted and the word '/Prosumer' inserted after the Eligible Consumer. Accordingly, the said Clause shall read as under:

"In addition to the general eligibility defined in Regulation 2.1(l) of these Regulations, the Eligible Consumer/Prosumer for the Rooftop Solar PV System shall:",

The Regulation 6.1 (ii) shall be amended by inserting the word "or possess on rental basis" between the words "be in legal possession" and the word "of the premises including the rooftop or terrace or building or infrastructure or open areas of the land or part or combination thereof on which the Solar PV System is proposed to be installed."

The Regulation 6.1 (iv) shall be substituted by following provisions
iv. consume all of the electricity generated from the Rooftop Solar PV System at the same premises. If the consumer/prosumer is not able to consume all of generated electricity in the same premises, it shall be governed by Regulation 9 of these Regulations.

The following new clauses shall be added after Principal Regulation 6.1 (iv) of the Principal Regulations as Regulation 6.1 (v) and 6.1 (vi).

6.1 (v) Inject all the electricity generated from the Rooftop Solar PV System into the grid as sale to the licensee at the tariff determined by the Commission.

6.1 (vi) Any individual or company or body corporate or association or body of individuals, whether incorporated or not, or artificial juridical

person shall be eligible for setting up of Solar Power Systems (SPSs), either for the purpose of captive use and / or for selling of electricity to the Distribution Licensee or Third Party whether or not under the Renewable Energy Certificate (REC) mechanism or fulfilment of Renewable Purchase Obligation subject to provisions of the Electricity Act, 2003, as amended from time to time.

9) **Amendment in Regulation 6.2 of the Principal Regulations read with First Amendment and Second Amendment:**

The first para of Regulation 6.2 of the Principal Regulations as well as the amended Regulations (First Amendment) and (Second Amendment) shall stand amended and substituted by following clauses:

- (a) Rooftop Solar PV System shall be permitted under net-metering provision for projects having capacity of 1 kW and above and upto 1000 kW.
- (b) Rooftop Solar PV System shall be permitted for gross-metering provision for projects having capacity of above 10 kW and upto 1000 kW.

Provided that the installed capacity is aligned with the provisions for permitting consumer connections as stated in the Gujarat Electricity Regulatory Commission (Electricity Supply Code and Related Matters) Regulations, 2015 as amended from time to time, read with the provisions of GERC (Terms and Conditions of the Intra-State Open Access) Regulations, 2011 as amended from time to time.

- (c) Capacity of Solar Power Plant set up by the eligible consumers/prosumers:

Subject to limitation specified in clause (a) and (b) above, the capacity of Solar Power Plant set up by the eligible consumers/prosumers are permitted as under:

- (i) Solar Projects set up by residential consumers on their rooftop/premises shall be allowed irrespective of consumer sanctioned load. Incentives under existing schemes can be availed by consumers as per the provisions of the scheme.
- (ii) No capacity restrictions upto sanctioned load/ contracted demand shall be applicable for the captive consumers and project set up under Third Party Sale within the permissible limit.
- (iii) For the projects set up under REC Mechanism for captive use/ third party sale, installation of solar projects shall be allowed up to sanctioned load/contracted demand.
- (iv) The capacity of solar plant set up for fulfillment of RPO requirements shall be permitted regardless of their sanctioned load/ contracted demand.

10) Amendment in title of Table and at Sr. No. (iv) provided in Regulation 8(2) of the Principal Regulations are amended as under:

Sr. No.	Connected load of eligible consumer/prosumer	Connectivity level
(iv)	Above 100 kW/kVA	11 KV, 3 Phase, 50 Hz.

11) Amendment in Regulation 9 of the Principal Regulations and its Second Amendment:

Regulation 9 "Energy Accounting and Settlement" of the Principal Regulations and its Second Amendment shall be substituted by following Regulations:

9. Energy Accounting and Settlement

- (a) Any energy injected prior to commissioning of the solar project shall be deemed as inadvertent power. The consumer/prosumer of Solar PV owner is not eligible to receive any monetary compensation for such inadvertent power.
- (b) For each billing period, the licensee shall show the (i) quantum of electricity injected by Eligible Consumer from Solar PV System in the grid, (ii) electricity supplied by the Distribution Licensee, (iii) net billed electricity for payment by the consumer and (iv) net exported energy after adjustment against the consumption separately.
- (c) In case of Prosumer set up the Solar Rooftop projects under Gross Metering provision, the electricity generated and supplied from such Solar Rooftop Project to the Distribution Licensee shall be shown separately in the bill issued by the Distribution Licensee for payment of such electricity to the Prosumer at the rate determined by the Commission as per decision of the Commission in Petition No. 1802/2019. The electricity supplied by the Distribution Licensee to such Prosumer shall be stated separately in the bill by the licensee or each billing period for payment as per tariff applicable to such consumer as may be decided by the Commission.
- (d) The Solar Rooftop Power Projects commissioned under the provisions of earlier Notifications of Net Metering Regulations notified by the Commission, the energy accounting of such projects shall be governed by the provisions of Net Metering Regulations under which they were commissioned. However, in case of any addition/reduction in Solar Capacity or Contracted / Sanctioned load, the earlier set-up Solar

Rooftop project arrangement shall be considered different and distinct and a fresh agreement under existing Regulations shall be signed for additional capacity.

- (e) In case of the energy supplied by the Rooftop Solar Power Project set up under gross metering mechanism by Residential Consumer and Government consumers on premises having ownership or legal possession shall be purchased by the Distribution Licensee at the rate determined by the Commission in its Order dated 08.08.2019 in Petition No. 1802/2019 for Solar Power Projects under the Policy for Development of Small Scale Distributed Solar Projects, 2019. Draft Agreement is provided herein at Annexure IV.

9.1 For Residential and Government Consumers

- 9.1.1 Solar Projects set up by residential consumers on their own rooftop / premises shall be allowed irrespective of consumer sanctioned load subject to limitation of capacity provided in these Regulations. Incentives under existing schemes can be availed by consumers as per the provisions of these Regulations.
- 9.1.2 Solar Projects can also be set up by a developer on the rooftop / premises of a residential consumer for generation and sale of power to such consumer/prosumer in the same premises under Third Party Sale for which the developer and consumer/prosumer shall enter into a lease agreement and/or power sale agreement.
- 9.1.3 In case of Residential Consumers, the Energy Accounting shall be carried out on Billing Cycle basis.
 - (i) In the event the electricity injected from the Rooftop Projects set up under Net Metering provisions exceeds the electricity consumed during the billing period, surplus energy generated from the solar project after

set off on billing cycle basis shall be purchased by respective Distribution licensee at the following rates.

(a) In case of self-owned systems and SURYA Gujarat scheme consumers:

At Rs.2.25 / unit for the first 5 years from commissioning of project and thereafter for the remaining term of the project at 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e. either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project.

(b) In case of Third-Party Sale covered under Clause 9.1.2 - At 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

Such rates shall be declared by GUVNL on six monthly basis and shall be applicable under the agreement to be executed by Distribution licensee with the consumer.

9.1.4 Excess drawl by consumer/Prosumer from the grid, if any, after giving set off in case of Solar Project set up under Net Metering mechanism shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.

9.1.5 No Banking charges shall be applicable on solar power consumed by Residential Consumers.

9.1.6 The electricity supplied by the Distribution Licensee to Prosumer shall be billed separately at the applicable tariff as determined by the Commission from time to time of respective category of Prosumer for each billing period for payment.

9.2 For the projects set up under captive use:

9.2.1 This section of the Regulations shall refer to industrial, commercial, institutional and other consumers setting up projects under Captive use.

9.2.2 The captive use of electricity for self-consumption within the same premises or at different premises by the consumer must having ownership of SPS shall be as specified in the Electricity Rules, 2005 and amendments made thereto from time to time.

9.2.3 No capacity restrictions shall be applicable under this category subject to consideration of the limit provided for Rooftop projects in Regulations 6.2 of these Regulations.

9.2.4. Installation of Rooftop solar project carried out by the Captive Consumer by keeping ownership and consumption of energy generated from such plant complying the provision specified in the Electricity Rules, 2005 and amendments made thereto from time to time. In such cases the ownership of the plant and energy generated from such plant shall be consumed by the captive consumer as specified in the Electricity Rules, 2005 and amendments made thereto from time to time.

9.2.5 The ownership in Captive Solar Generating plant and consumption of energy on annual basis (financial year basis) from it shall have to be proved as per the provisions of Electricity Rules, 2005 by the members/persons of the Captive Solar Generating plant by submitting necessary data/documents as per the relevant law on annual basis for the financial year. So far as supply and consumption of energy by the

members/persons in proportion to their ownership in the CGP as per the provisions of Electricity Rules, 2005 is concerned, the members/persons who are claiming onownership in captive generating plants shall have to prove the same by submitting necessary documents/data on annual basis (financial year basis) with regard to (i) ownership in the captive generating plants and (ii) consumption of energy supplied from the captive generating plants to such members in proportionate to their ownership in the CGP with consideraration of provisions of the Electricity Rules, 2005 and prevailing law at the relevant time. Such details shall be submitted to the (i) Chief Electrical Inspector and (ii) the Distribution Licensee in its license area. In case of failure to prove the Captive Generating Plant status by the owners on annual (Financial Year) basis, the energy supplied from such plant shall be considered as sale by the third party and it shall attract Cross Subsidy Surcharge and Additional Surcharge as decided in these Regulations.

- 9.2.6 In case of solar projects set up by HT / EHV consumers for captive use, the energy set-off shall be allowed between 07.00 hours to 18.00 hours of the same day which means the generated solar energy during a day shall be consumed by HT or EHV consumer during 07.00 hours to 18.00 hours on the same day. The surplus energy after the specified period shall be purchased by Distribution Licensee at rates specified under these Regulations.
- 9.2.7 In case of solar projects set up by LT demand-based consumers for captive use, the energy set-off shall be allowed between 07.00 hours to 18.00 hours basis of the same billing cycle which means the generated solar energy during a billing cycle between 7:00 hours to 18:00 hours shall be consumed by the consumer during the specified period of 7:00 hours to 18:00 hours in the same billing cycle.

9.2.8 The energy accounting for all other LT consumers i.e., other than demand based LT consumers, shall be on billing cycle basis.

9.2.9 The surplus energy, not consumed during the above mentioned period by the consumer after set-off, shall be compensated by Distribution licensees by following Surplus Injection Compensation (SIC) rates.

- In case of MSME Manufacturing Enterprises - At Rs 2.25 / unit for first 5 years from commissioning of project and thereafter for the remaining term of the project at 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.
- In case of other than MSME Manufacturing Enterprises-At 75% of the simple average of tariff discovered and contracted through competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

9.2.10 Excess drawl of electricity by the consumer from the grid, if any, after giving set off shall be charged by the Distribution Licensee at the applicable tariff of the respective category of consumer as determined by the Commission from time to time.

9.2.11 Banking charges of Rs.1.50 / unit shall be applicable on solar energy consumed in the case of Demand based Consumers shall be applicable.

In case of MSME manufacturing units and other than Demand based Consumers, Banking Charges of Rs.1.10 per unit on Solar Energy consumed shall be applicable. Banking Charges shall not be applicable to government buildings.

9.2.12 Projects set up for captive use shall have the option to switch over from captive use to Distribution licensee sale once in their life-time and upon such switch over, the applicable tariff under agreement to be signed with Distribution licensee shall be lowest tariff discovered and contracted in competitive bidding process conducted by GUVNL for non-park based Solar Projects as on the Commercial Operation Date (COD) of the project.

9.3 PROJECTS UNDER THIRD PARTY SALE

9.3.1 This section of the Regulations shall refer to industrial, commercial, institutional and other consumers, setting up projects under third party sale.

9.3.2 The sale of electricity by the owner of Solar Power Systems/ Projects (SPSs) to separate consumer/prosumer shall be considered as Third-Party Sale. Developers can also install solar rooftop projects on rooftop/ premises of a consumer for generation and sale of power to such consumer/prosumer by entering into lease agreement and/or power sale agreement.

9.3.3 Installation of solar rooftop projects by a developer for third party sale to the consumer of Distribution Licensee shall be permitted with consideration of capacity ceiling provided under Regulation 6.2.

9.3.4 In case of solar rooftop projects set up by HT / EHV consumers, the energy set-off shall be allowed between 07:00 hours to 18:00 hours of the same

day which means the generated solar energy during a day shall be consumed by HT or EHV consumer during 07.00 hours to 18.00 hours on the same day. The surplus energy after the specified period shall be purchased by Distribution licensee at rates specified under these Regulations.

- 9.3.5 In case of solar projects set up by LT demand-based consumers, the energy setoff shall be allowed between 07:00 hours to 18:00 hours basis of the same billing cycle which means the generated solar energy during a billing cycle between 07:00 hours to 18:00 hours shall be consumed by the consumer/prosumer during the specified period in the same billing cycle. While in case of solar projects set up by LT non-demand based consumers, the energy set-off shall be allowed on billing cycle basis.
- 9.3.6 The surplus energy, not consumed by the consumer during the above mentioned set-off period shall be compensated by Distribution Licensees at 75% of the simple average of tariff discovered and contracted through competitive bidding process conducted by GUVNL for non-park based Solar Projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the Agreement.
- 9.3.7 Excess drawl by consumer from the grid, if any, after giving set off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.
- 9.3.8 Banking charges of Rs 1.50 / unit shall be applicable on solar energy consumed in case of Demand based Consumers shall be applicable. In case of MSME units and other than LT Demand based Consumers, Banking Charge of Rs.1.10 per unit shall be applicable on Solar Energy

consumed shall be applicable. Banking Charges shall not be applicable to government buildings.

9.4 PROJECT UNDER REC MECHANISM

- 9.4.1 Developers/Consumers/Prosumer may set up Solar Rooftop Power Projects under the REC mechanism in accordance with the administrative procedure regarding registration and accreditation, as decided by the Central Electricity Regulatory Commission (CERC) and as amended from time to time.
- 9.4.2 In case of projects to be set up for captive / third party sale under REC mechanism, installation of solar projects up to sanctioned load / contracted demand shall be allowed subject to the provisions of Regulation 6.2 and other provision of these Regulations.
- 9.4.3 The energy accounting for the projects set up under REC mechanism shall be carried out on 15-minute time block basis.
- 9.4.4 In case of projects set up for captive / third party sale under REC Mechanism, surplus energy after giving set-off on 15 minute time block basis, shall be compensated by Distribution Licensees at 65% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.
- 9.4.5 Excess drawl by consumer from the grid, if any, after giving set-off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.

- 9.4.6 In case Distribution licensee agrees to purchase the electricity component of power from a project under REC Mechanism, the applicable tariff payable by Distribution Licensees shall be, 65% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-Park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the date on which the PPA is executed. The same shall remain fixed for the entire term of the agreement.
- 9.4.7 No banking charges shall be applicable.
- 9.4.8 In case of Projects set up for third party sale, Cross Subsidy Surcharge and Additional Surcharge shall be applicable similar to normal open access consumers as determined by the Commission from time to time.
- 9.4.9 Transmission and Wheeling charges and losses as determined by the Commission shall be levied as applicable depending on the location of the plant and the point of consumption.

9.5 SOLAR PROJECTS FOR RPO COMPLIANCE

- 9.5.1 Consumers shall be allowed to set up projects to fulfill their RPO requirements regardless of their contracted demand subject to the provisions of Regulation 6.2 and other provisions of these Regulations. For such projects the energy accounting shall be done on a 15 minute time block basis.
- 9.5.2 The surplus solar energy purchased by Distribution Licensee from captive / third party solar projects shall be considered for fulfilling RPO of such Distribution Licensee.
- 9.5.3 The surplus energy injected into the Grid shall be compensated by Distribution Licensee at 75% of the simple average of tariff discovered

and contracted by GUVNL through competitive bidding process for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

- 9.5.4 Excess drawl by consumer from the grid, if any, after giving set off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.
- 9.5.5 No banking charges shall be applicable.

12) Amendment in Regulation-12 Applicability of other charges:

An amendment in Regulation 12.1 shall be made by adding the word "captive use" between the words "Eligible Consumer's premises" and "shall be exempted from transmission charge, transmission loss....."

The following new Regulation 12.2 on Wheeling and Transmission of electricity and Regulation 12.3 on Cross Subsidy Surcharge and Additional Surcharge shall be added/inserted after Principal Regulation 12.1.

12.2. WHEELING & TRANSMISSION OF ELECTRICITY:

- 12.2.1 Whenever wheeling/transmission of power for captive consumption/ third party sale shall be allowed with open access permission by the licensee, in such condition, transmission charges, transmission losses, wheeling charges and unit losses as applicable to normal open access consumers shall be applied.

While in case of energy generated from solar power projects is consumed by the consumer/prosumer with same point of injection and consumption within the same premises without use of grid, no transmission/wheeling charges and losses shall be applied.

12.3 CROSS SUBSIDY SURCHARGE AND ADDITIONAL SURCHARGE

12.3.1 Cross Subsidy Surcharge and Additional Surcharge shall not be applicable in case of Captive Projects. In case of projects set up for Third Party sale, Cross Subsidy Surcharge and Additional Surcharge shall be equal to charges for normal open access consumers. These charges shall be applicable as determined by the Commission from time to time.

13) Metering Arrangement

The following new Regulation 13.7 on Metering Arrangement shall be added after Principal Regulations after Regulation 13.6:

13.7 In case of consumers having contracted load / sanctioned demand not exceeding 1 MW, Distribution licensees may allow installation of non-ABT meters at consumer level reprogrammed at consumer's cost as per the energy accounting requirement.

14) Penalty or Compensation:

The following new Regulations on "Un-authorized installation of additional Solar Modules or replacement of Solar Module without approval of Distribution Licensee attract" to be inserted after Regulation 16.

16.1 Replacement/Repairing of parts of the existing Solar Rooftop Projects

In case of existing Solar Rooftop Power Project whenever any Solar PV modules/inverters or any part is damaged or not working, the Solar

Rooftop Power Project owner may replace such part of Solar Rooftop Power Plant. In case the Solar PV modules/inverters or other parts of the Project are not available of earlier capacity of such part when the plant was commissioned and made operative, in such condition, the parts which are damaged or defective can be replaced with the parts which will be available at relevant time of replacement of such part. The Solar Rooftop Power Project owner shall intimate immediately to the licensee about the replacement of Solar PV modules or any parts for information and records of the licensee. The licensee shall verify such replacement of Solar PV modules or other parts, within 30 days, from the receipt of such application from the Solar Rooftop owner, failing which will be deemed as approved by the licensee.

16.2 Addition in capacity of Solar Rooftop Plants by owner without approval of the licensee

The addition of Solar Modules after commissioning of Solar Power Plant by consumer/Solar Power Generator for which Agreement for Sale/Purchase signed between the Solar Project Developer/Distribution licensee or Consumer/Prosumer will be considered as 'Un-authorized Capacity Addition'. It shall attract penalty for utilization of generation from such plant at twice the applicable tariff for such Solar Developer/Consumer for the period of such additional capacity and equipments of Solar Power Plant to the extent of added unauthorized solar power plant capacity.

16.3 Installation and connectivity of Solar Rooftop Project with the licensee network without any approval/permission

Any installation of new Solar Rooftop Project without approval of concerned distribution licensee shall be qualified as unauthorized connection/use and it shall attract penalty for utilization of generation

from such plant at twice of the applicable tariff for such Solar Developer/Consumer for the period of such capacity and equipments of Solar Power Plant to the extent of unauthorized solar power plant capacity connected without approval of licensee and such equipments of solar power plant shall liable to be removed.

Sd/-
[Roopwant Singh, IAS]
Secretary
Gujarat Electricity Regulatory Commission
Gandhinagar, Gujarat

Place: Gandhinagar.
Date: 31/05/2022.

In Annexure-I (ABBREVIATIONS)

The Abbreviation SPS – SOLAR POWER SYSTEM inserted between SPV – Solar Photo Voltaic and TVM-Tri-Vector Meter

Annexure-IV**Inter connection Agreement between Distribution Licensees and Solar Rooftop PV Project Owner**

The Distribution Licensee shall consider the relevant/applicable clauses of this Model Agreement and remove other clauses which are not applicable while executing any agreement with consumers/prosumers.

Net Metering/Gross-Metering Inter Connection Agreement

This Agreement is made and entered into at (location) _____ on this (date) _____ day of (month) _____ year _____ between the Consumer/Prosumer/Solar Power System (SPS) developer under third party sale, by the name of ----- having premises at (address) _____ as first party

AND

_____ (Name of the Distribution Licensee), Company registered under the Companies Act 1956/2013 and functioning as the "Distribution Licensee" under the Electricity Act 2003 having its Head Office at, _____ (hereinafter referred to as _____ or Distribution Licensee which expression shall include its permitted assigns and successors) a Party of the Second Part.

"AND, WHEREAS _____ (name of the consumer/Prosumer/SPS developer under third party sale) desires to set-up such Solar Photovoltaic Rooftop System of _____ kW at _____ connected with (Name of the Distribution Licensee)'s grid at _____ Voltage level for his/her/its own use or sale to consumers under third party sale to Distribution Licensee within the same premises using the same point of supply".

WHEREAS, the Gujarat Energy Development Agency (GEDA)/ Gujarat Urja Vikas Nigam Limited through letter dated _____ has registered for developing and setting up _____ kW own Rooftop Solar PV System for his/her/its own use, third party sale or sale to

licensee under Gujarat Solar Power Policy – 2021 read with Order No. 03 of 2020 dated 08.05.2020 and Orders dated 11.06.2021 & 06.07.2021 in Petition No. 1936 of 2021 at his/her/its premises in legal possession or premises at rental basis including rooftop or terrace.

AND WHEREAS, the Distribution Licensee agrees to provide grid connectivity to the Consumer/Prosumer/SPS developer under third party sale for injection of the electricity generated from his Rooftop Solar PV System of capacity __ kilowatts (kW) into the power system of Distribution Licensee and as per conditions of this agreement and in compliance with the applicable Policy / Rules / Regulations/ Codes (as amended from time to time) by the Consumer/Prosumer/SPS developer under third party sale which includes-

1. Government of Gujarat Solar Power Policy, 2021
2. Electricity (Rights of Consumers) Rules, 2020
3. Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010.
4. Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time.
5. Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time.
6. Gujarat Electricity Regulatory Commission (Electricity Supply Code & Related Matters) Regulations, 2015 as amended from time to time.
7. Gujarat Electricity Regulatory Commission Distribution Code, 2004 and amendments thereto,
8. Instruction, Directions and Circulars issued by Chief Electrical Inspector from time to time.
9. CEA (Technical Standards for connectivity of the Distributed Generation) Regulations, 2013 as amended from time to time.

Both the parties hereby agree as follows:

1. Eligibility

- 1.1 Consumer/Prosumer/SPS developer under third party sale shall own the Rooftop Solar PV System set up on its own premises or premises in his legal possession, on lease or rental basis.
- 1.2 Consumer needs to consume electricity generated from the Solar Power System set up in the same premises using same point of supply where Rooftop Solar PV System is set up.
- 1.3 Consumer/Prosumer/SPS developer under third party sale shall ensure capacity of Rooftop Solar not to exceed than the limit specified in the Regulations. If it is violated then provisions of unauthorized use shall be applicable and consumer/prosumer/SPS developer shall be penalized as per the provisions of these Regulations.
- 1.4 Consumer/Prosumer/SPS developer under third party sale has to meet the standards and conditions as specified in Gujarat Electricity Regulatory Commission Regulations and Central Electricity Authority Regulations and provisions of Government of Gujarat's Solar Power Policy, 2021 for being integrated into grid/distribution system.
- 1.5 Prosumer shall inject the electricity generated from Solar Power System into the grid to supply/sale to the Distribution Licensee.

2. Technical and Interconnection Requirements

- 2.1 Consumer/Solar Project Developer under third party sale agrees that his/it Rooftop Solar PV System and Net Metering System will conform to the standards and requirements specified in the Policy, Regulations and Supply Code as amended from time to time.

- 2.2 Prosumer agrees that his/it Rooftop Solar PV System and Gross Metering System will conform to the standards and requirements specified in the Electricity Rules, Policy, Supply Code and Regulations notified by the Commission as amended from time to time.
- 2.3 Consumer/Solar Power System Developer under third party sale/Prosumer agrees that he/she/it has installed or will install, prior to connection of Rooftop Solar Photovoltaic System to Distribution Licensee's distribution system, an isolation device (both automatic and inbuilt within inverter and external manual relays) and agrees for the Distribution Licensee to have access to and operation of this, if required and for repair & maintenance of the distribution system.
- 2.3 Consumer/ Solar Power System Developer under third party sale/Prosumer agrees that in case of non-availability of grid, Rooftop Solar Photovoltaic System will disconnect/isolate automatically and his/it plant will not inject power into the Licensee's distribution system.
- 2.4 All the equipments connected to the distribution system shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS) and installations of electrical equipments must comply with Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010 as amended from time to time.
- 2.5 Consumer/ Solar Power System Developer under third party sale/Prosumer agrees that licensee will specify the interface/inter connection point and metering point.
- 2.6 Consumer/ Solar Power System Developer under third party sale/Prosumer and licensee agree to comply with the relevant CEA Regulations in respect of operation and maintenance of the plant, drawing and diagrams, site responsibility schedule, harmonics, synchronization, voltage, frequency, flicker etc.
- 2.7 In order to fulfill Distribution Licensee's obligation to maintain a safe and reliable distribution system, Consumer/Prosumer/Solar Power System Developer under

third party sale agrees that if it is determined by the Distribution Licensee that Consumer's/ Prosumer's/Solar Power System Developer's Rooftop Solar Photovoltaic System either causes damage to and/or produces adverse effects affecting other consumers or Distribution Licensee's assets, Consumer/Prosumer/SPS Developer will have to disconnect Rooftop Solar Photovoltaic System immediately from the distribution system upon direction from the Distribution Licensee and correct the problem to the satisfaction of Distribution Licensee at his own expense prior to reconnection.

- 2.8 The consumer/Prosumer/Solar Power System Developer under third party sale shall be solely responsible for any accident to human being/animals whatsoever (fatal/non-fatal/departmental/non-departmental) that may occur due to back feeding from the Rooftop Solar plant when the grid supply is off if so decided by CEI. The Distribution Licensee reserves the right to disconnect the consumer's installation at any time in the event of such exigencies to prevent accident or damage to man and material.

3. Clearances and Approvals

- 3.1 The Consumer/Prosumer/Solar Power System Developer under third party sale shall obtain all the necessary statutory approvals and clearances (environmental and grid connection related) before connecting the photovoltaic system to the distribution system.

4. Access and Disconnection

- 4.1 Distribution Licensee shall have access to metering equipment, SPS and disconnecting means of the Rooftop Solar Photovoltaic Systems, both automatic and manual, at all times.
- 4.2 In emergency or cutage situation, where there is no access to the disconnecting means, both automatic and manual, such as a switch or breaker, Distribution Licensee may disconnect service to the premises of the Consumer.

5. Liabilities

- 5.1 Consumer/Prosumer/Solar Power System Developer under third party sale shall indemnify Distribution Licensee for damages or adverse effects from his negligence or intentional misconduct in the connection and operation of Rooftop Solar Photovoltaic System.
- 5.2 Distribution Licensee shall not be liable for delivery or realization by the Consumer/Prosumer/Solar Power System Developer under third party sale of any fiscal or other incentive provided by the Central/State Government.
- 5.3 Distribution Licensee may consider the quantum of electricity generation from the Rooftop Solar PV System set up by the project developer under third party sale or owned and operated by (i) Residential Consumers, (ii) Projects set up under Captive or Third Party, (iii) Projects set up under RPO or REC mechanism toward RPO compliance.

6. Metering:

Metering arrangement shall be as per Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time.

- (a) In case of Residential Consumers, Bi-directional meter shall be installed of same accuracy class as installed before setting up of Rooftop Solar PV System.
- (b) In case of Industrial, Commercial, Government Institutions and other consumers-
 - (i) Projects set up under Captive or Third Party Sale:
Bi-directional meter shall be installed of same accuracy class as installed before setting up of Rooftop Solar PV System.
 - (ii) Projects set up under RPO or REC Mechanism:
ABT compliant meter having 15 minute integration shall be installed.

Provided that separate generation meter shall be installed in all projects irrespective of arrangement i.e. net metering or gross metering.

7. Commercial Settlement

All commercial settlements under this agreement shall be as per GERC (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 amended from time to time and Order No. 3 of 2020 dated 08.05.2020 and Suo-Motu Order No. 06 of 2020 dated 05.08.2020 of the Gujarat Electricity Regulatory Commission and any subsequent orders in this regard.

In case of the energy injected from Solar Power System set up by the prosumer sale to Distribution Licensee under gross metering arrangement shall be purchased by the Distribution Licensee at the rate mechanism decided and specified by the Commission in its Order dated 08.08.2019 in Petition No. 1802 of 2019, pertaining to tariff for the Solar Power Projects set-up under "Policy for Development of Small Scale Distributed Solar Projects – 2019" as under:

"Applicable Tariff

Tariff applicable shall be as per following mechanism:

The tariff contracted in the competitive bidding process conducted by GUVNL at which PPAs are signed for procurement of Solar Power from projects located outside Solar Park prevailing as on 31st March (computed based on simple average of such tariff discovered and contracted over six months ending on 31st March) of any given year with an addition of Rs. 0.20 per unit shall be the applicable tariff at which the PPAs shall be signed during the immediately succeeding period of April to September by Obligated Entities with these Solar Projects under these Regulations and similarly the contracted tariff prevailing as on 30th September of any given year (computed based on simple average of such tariff discovered and contracted over six months ending on 30th September) with an addition of Rs. 0.20 per unit shall be the applicable tariff for PPAs to be signed during the immediately succeeding period of October to March. The Rs. 0.20 per unit addition in tariff is allowed for Rs. 0.12 per unit for

saving in transmission loss as power will be injected in distribution grid and Rs. 0.08 per unit is to compensate for expensive land cost, higher capital investment and maintenance cost due to small size of projects.

The above mentioned tariff shall be applicable for a PPA term of 25 years from Commercial Operation Date of the Projects.”

The commercial settlement will be as follows:

7.1 GROSS METERING ARRANGEMENT:

The gross solar energy generated and registered in the Solar generation meter during billing cycle shall be compensated by the Distribution Licensee at the rate determined by the Commission in its Order 08.08.2019 in Petition No. 1802 of 2019 for Solar Power Projects set up under “Policy for Development of Small Scale Distributed Solar Projects – 2019”.

7.2 For Residential and Government Consumers:

- (i) In case of Residential Consumers, the Energy Accounting shall be carried out on Billing Cycle basis.
- (ii) “In case of net export (net injection) of energy by the consumer to distribution grid during billing cycle, the Distribution Licensee shall compensate for surplus power, after giving set off against consumption during the billing period, at following rates:
- (iii) In case of self-owned systems and SURYA Gujarat scheme consumers:
 - (a) At Rs.2.25 / unit for the first 5 years from commissioning of project and thereafter for the remaining term of the project at 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e. either

April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project.

(b) In case of Third-Party Sale covered under Clause 9.2 -At 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for Non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of agreement.

Such rates shall be declared by GUVNL on six monthly basis and shall be applicable under the connectivity agreement to be executed by Distribution Licensees.

7.3 For the projects set up under Captive use:

- (i) In case of solar projects set up by HT / EHV consumers for captive use, the energy set-off shall be allowed between 07.00 hours to 18.00 hours of the same day meaning thereby, the generated solar energy during a day shall be consumed by HT or EHV consumer during 07.00 hours to 18.00 hours on the same day.
- (ii) In case of solar projects set up by LT demand-based consumers for captive use, the energy set-off shall be allowed between 07.00 hours to 18.00 hours basis of the same billing cycle meaning thereby, the generated solar energy during 7:00 hours to 18:00 hours billing cycle shall be consumed by the consumer during the specified period, of 7:00 hours to 18:00 hours in the same billing cycle.
- (iii) The energy accounting for all other LT consumers i.e., other than demand based LT consumers shall be on billing cycle basis.

(iv) The surplus energy, not consumed by the consumer during the above mentioned after set off period shall be compensated by Distribution Licensees at following rates (SIC).

(a). In case of MSME Manufacturing Enterprises - At Rs 2.25 / unit for first 5 years from commissioning of project and thereafter for the remaining term of the project at 75% of the simple average of tariff discovered and contracted under competitive bidding process conducted by GUVNL for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

(b). In case of other than MSME Manufacturing Enterprises-At 75% of the simple average of tariff discovered and contracted through competitive bidding process conducted by GUVNL for Non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

(v) Excess drawl by consumer from the grid, if any, after giving set off shall be charged by the Distribution Licensee at the applicable tariff of the respective category of consumer as determined by the Commission from time to time.

(vi) In case of projects set up for captive use, no cross-subsidy surcharge and additional surcharge shall be applicable.

(vii) Banking charges of Rs.1.50/ unit shall be applicable on solar energy consumed in case of Demand based Consumers shall be applicable. In case of MSME units and other than Demand based Consumers, Banking Charges

of Rs.1.10 per unit on Solar Energy consumed shall be applicable. Banking Charges shall not be applicable to government buildings.

7.4 For the projects set up under third party sale:

- (i) In case of solar projects set up by HT / EHV consumers, the energy set-off shall be allowed between 07.00 hours to 18.00 hours of the same day meaning thereby, the generated solar energy during a day shall be consumed by HT or EHV consumer during 07.00 hours to 18.00 hours on the same day. The surplus energy after the specified period shall be purchased by Distribution licensee at rates specified under these Regulations.
- (ii) In case of solar projects set up by LT demand-based consumers, the energy setoff shall be allowed between 07.00 hours to 18.00 hours basis of the same billing cycle meaning thereby, the generated solar energy during 7:00 hours to 18:00 hours of a billing cycle shall be consumed by the consumer during the specified period of 7:00 hours to 18:00 hours in the same billing cycle. While in case of Solar Rooftop project set up by other than demand based LT consumers the energy generated shall be given set-off on billing cycle basis.
- (iii) The surplus energy injected into the Grid during the above mentioned set-off period shall be compensated by Distribution Licensees at 75% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

- (iv) Excess drawl of electricity by consumer from the grid, if any, after giving set off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.
- (v) No Cross Subsidy Surcharge and Additional Surcharge shall be applicable in case of captive consumption. But, in case of third party sale projects, both these charges shall be applicable. These surcharges shall be similar to normal open access consumers as determined by the Commission from time to time.
- (vi) Banking charges of Rs 1.50 / unit shall be applicable on solar energy consumed in case of Demand based Consumers shall be applicable. In case of MSME units and other than Demand based Consumers, Banking Charge of Rs.1.10 per unit on Solar Energy Consumed shall be applicable. Banking Charges shall not be applicable to government buildings.

7.5 For the projects set up under REC mechanism:

- (i) Developers may set up solar power projects under the REC mechanism in accordance with the administrative procedure regarding registration and accreditation, as decided by the Central Electricity Regulatory Commission (CERC), and as amended from time to time.
- (ii) In case of projects to be set up for captive/third party sale under REC mechanism, installation of solar projects up to sanctioned load/contract demand shall be allowed subject to the provision of Regulation 6.2 and other provisions of these Regulations.
- (iii) The energy accounting for the projects set up under REC mechanism shall be carried out on 15-minute time block basis.
- (iv) In case of projects set up for captive/third party sale under REC mechanism, surplus energy after giving set-off on 15 min time block basis, shall be

compensated by Distribution Licensees at 65% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.

- (v) Excess drawl by consumer from the grid, if any, after giving set off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.
- (vi) In case Distribution Licensee agrees to purchase the electricity component of power from a project under REC mechanism, the applicable tariff payable by Distribution Licensees shall be, 65% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-Park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the date on which the PPA is executed. The same shall remain fixed for the entire term of the agreement.
- (vii) No banking charges shall be applicable.
- (viii) In case of Projects set up for third party sale, Cross Subsidy Surcharge and Additional Surcharge shall be applicable similar to normal open access consumers as determined by the Commission from time to time.

7.6 For the projects set up for RPO compliance:

- (i) Consumers shall be allowed to set up projects to fulfill their RPO requirements regardless of their contracted demand. For such projects the energy accounting shall be done on a 15 minute time block basis.

- (ii) The surplus solar energy purchased by Distribution Company from captive/third party solar projects shall be considered for fulfilling RPO of such Distribution Licensee.
- (iii) The surplus energy injected into the Grid shall be compensated by Distribution licensee at 75% of the simple average of tariff discovered and contracted by GUVNL through competitive bidding process for non-park based solar projects in the preceding six months period, i.e., either April to September or October to March as the case may be, from the Commercial Operation Date (COD) of the project. The same shall remain fixed for the entire term of the agreement.
- (iv) Excess drawl by consumer from the grid, if any, after giving set off shall be charged by Distribution Licensee at applicable tariff of respective category of consumer as determined by the Commission from time to time.
- (v) Cross Subsidy Surcharge and Additional Surcharge shall not be applicable in case of captive consumption. For third party sale projects, both the charges shall be applicable. These surcharges shall be similar to normal open access consumers as determined by the Commission from time to time
- (vi) No banking charges shall be applicable.

8. Connection Costs

8.1 The Consumer/ Prosumer/Solar Power System Developer under third party sale shall bear all costs related to setting up of Rooftop Solar Photovoltaic System including metering and inter-connection. The Consumer/Prosumer/Solar Power System Developer under third party sale agrees to pay the actual cost of modifications and upgrades to the service line, cost of up gradation of transformer to connect photovoltaic system to the grid in case it is required.

9. Inspection, Test, Calibration and Maintenance prior to connection:

Before connecting, Consumer/ Prosumer/Solar Power System Developer under third party sale shall complete all inspections and tests finalized in consultation with the (Name of the Distribution license) and if required Gujarat Energy Transmission Corporation Limited (GETCO) to which his equipment is connected. Consumer/ Prosumer/Solar Power System Developer under third party sale shall make available to Distribution Licensee all drawings, specifications and test records of the project or generating station as the case may be.

10. Records:

Each Party shall keep complete and accurate records and all other data required by each of them for the purposes of proper administration of this Agreement and the operation of the Rooftop Solar PV System.

11. Dispute Resolution:

- 11.1 All disputes or differences between the Parties arising out of or in connection with this Agreement shall be first tried to be settled through mutual negotiation, promptly, equitably and in good faith.
- 11.2 In the event that such differences or dispute between the Parties is not settled through mutual negotiations within 60 days or mutually extended period, after such dispute arises, then for
 - (a) any dispute in billing pertaining to energy injection and billing amount, it would be settled by the Consumer Grievance Redressal Forum and Electricity Ombudsman.
 - (b) any other issues pertaining to the Regulations and its interpretation; it shall be decided by the Gujarat Electricity Regulatory Commission following appropriate prescribed procedure.

12. Termination:

12.1 The Consumer/Prosumer/Solar Power System Developer under third party sale can terminate agreement at any time by giving 90 days prior notice to Distribution Licensee.

12.2 Distribution Licensee shall have right to terminate Agreement with 30 days prior written notice, if Consumer/Prosumer/Solar Power System Developer under third party sale commits breach of any of the terms of this Agreement and does not remedy the breach.

12.3 Consumer/Prosumer/Solar Power System Developer under third party sale shall upon termination of this Agreement, disconnect the Rooftop Solar Photovoltaic System from Distribution Licensee's distribution system within one week to the satisfaction of Distribution Licensee.

Communication:

The names of the officials and their addresses, for the purpose of any communication in relation to the matters covered under this Agreement shall be as under:

In respect of the (Name of Distribution Licensee): * Additional C.E.(R&C) ___ Gujarat Vij Company Limited/Equivalent Authority,	In respect of the Consumer/ Prosumer/ Solar Power System Developer under third party sale (_____)
---	--

Authorised person by the Distribution Licensee ...

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their authorised officers, and copies delivered to each Party, as of the day and year herein above stated.

FOR AND ON BEHALF OF Distribution Licensee	FOR AND ON BEHALF OF THE PROJECT OWNER
Authorized Signatory	Authorized Signatory
WITNESSES	WITNESSES
1. _____ (_____)	1. _____ (_____)
2. _____ (_____)	2. _____ (_____)

Annexure-B, dt. 04.09.2024

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EXTRAORDINARY

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Separate paging is given to this Part in order that it may be filed as a Separate Compilation.

PART IV-C

Statutory Rules and Orders (Other than those published in Parts I, I-A and I-L)
 made by Statutory Authorities other than the Government of Gujarat
 including those made by the Government of India, the High Courts, the
 Director of Municipalities, the Commissioner of Police, the Director of
 Prohibition and Excise, the District Magistrates and the Election
 Commission, Election Tribunals, Returning Officers and other
 authorities under the Election Commission.

GUJARAT ELECTRICITY REGULATORY COMMISSION (GERC)

GANDHINAGAR

**Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems)
 (Fourth Amendment) Regulations, 2024.**

Notification No. 13 of 2024

GERC/REG/Legal/13/2024: In exercise of Powers conferred under Sections 61, 66, 86 (1) (e) read with 181 of the Electricity Act, 2003 (Act 36 of 2003) and all other powers enabling it in this behalf and after previous publication, the Gujarat Electricity Regulatory Commission hereby makes the following Regulations, to amend the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016, (hereinafter referred as 'The Principal Regulations' and its subsequent amendments thereof, namely:

1. Short Title, Scope Extent and Commencement

- (i) These Regulations shall be called Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) (Fourth Amendment) Regulations, 2024.
- (ii) These Regulations extend to the whole of the State of Gujarat.

2. These Regulations shall come into force from the date of their publication in the *Official Gazette*.

3. Amendment in Clause 5.1 of the Principal Regulations.

The Regulation 5.1 shall be substituted as under:

5.1 The distribution licensee shall update distribution transformer capacity available for connecting Rooftop Solar PV Systems under net metering arrangement on yearly basis and shall provide the information to the Commission.

Provided that the cost of strengthening of distribution infrastructure, including distribution transformer, as necessary, to facilitate the installation of Rooftop Solar PV System up to 6 KW including subsequent addition aggregating up to 6 KW, shall be included in the Annual Revenue Requirement of Distribution Licensee.

Provided further that for aggregate Rooftop Solar capacity above 6 KW, system strengthening charges shall be recovered by the Distribution Licensee from the applicant of Rooftop Solar system as per the below stipulations:

(a) For LT consumers installing Rooftop Solar PV System above 6 kW up to 100 kW in aggregate:

(i) In respect of State owned Discoms and Torrent Power Limited:

System strengthening charges for Rooftop Solar capacity above 6 kW up to 100 kW shall be recovered from the Applicant by the Distribution Licensee based on per kW basis charges as applicable for release of new/additional load at Low Tension, being recovered from the applicant by the concerned Distribution Licensee as approved by the Commission from time to time.

Provided that in case of addition of Rooftop Solar capacity resulting into total Rooftop Solar capacity above 6 kW, the system strengthening charges shall be recovered only for additional Rooftop Solar capacity.

(ii) In respect of other Discoms:

In case there is any requirement of upgradation of distribution infrastructures like the augmentation of service line, distribution transformer capacity, and the like for installation of the required capacity of Rooftop Solar PV System, the same shall be carried out by the distribution licensee, the cost of such augmentation shall be borne by the consumer.

Provided that as and when the Commission approves recovery of charges on per kW basis for release of new connection/additional load, the same shall be applicable for recovery of charges towards system strengthening for installation of Rooftop Solar PV system.

(b) For HT consumers installing Rooftop Solar PV System above 6 kW up to 1000 kW in aggregate:

(i) In respect of State owned Discoms:

System strengthening charges for Rooftop Solar capacity above 6 kW up to 1000 kW shall be recovered from the Applicant by the Distribution Licensee based on per KVA basis charges as applicable for release of new/additional load at High Tension, being recovered from the applicant by the concerned Distribution Licensee as approved by the Commission from time to time.

Provided that in case of addition of Rooftop Solar capacity resulting into total Rooftop Solar capacity above 6 kW, the system strengthening charges shall be recovered only for additional Rooftop Solar capacity.

(ii) In respect of other licensee:

In case there is any requirement of upgradation of distribution infrastructures like the augmentation of service line, and the like for installation of the required capacity of Rooftop Solar PV System, the same shall be carried out by the distribution licensee, the cost of such augmentation shall be borne by the consumer.

Provided that as and when the Commission approves recovery of charges on per kW basis or per KVA basis for release of new connection/additional load, the same shall be applicable for recovery of charges towards system strengthening for installation of Rooftop Solar PV system.

The capacity of Rooftop Solar PV System to be installed at the premises of any consumer shall not be less than one Kilo Watt (1 kW).

4. Regulation 7 of the Principal Regulations shall be substituted as under:

Various activities and different authorities are associated with the Solar Rooftop PV project. It is necessary that the different entities carry out the works within prescribed time limit. Therefore, time frame prescribed in the table below shall be scrupulously followed by the concerned authorities.

Sr. No.	Activity	Sub Activity	Duration in day(s)
1	Registration at GEDA or agency designated by the Government of Gujarat	GEDA or agency designated by the Government of Gujarat shall issue Registration Certificate.	5 days from receipt of duly completed application
2	Approval from Chief Electrical Inspector	CEI shall approve Single Line Diagram, Earthing Diagram and Wiring Diagram	10 days from receipt of duly completed application
3	Application to Distribution Licensee	<p>Applicant shall submit application in prescribed format along with following compliance and documents to Distribution Licensee</p> <ul style="list-style-type: none"> • Capacity of Solar Rooftop to be installed (Subject to Regulation 6.2) 	
4	Technical Feasibility Report (TFR)	On Registration with Distribution Licensee, letter to concerned Circle/Division for TFR and informing applicant regarding specifications of CTPT, meter.	3 days from receipt of duly completed application
5	TFR from field	<p>TFR to include following</p> <ul style="list-style-type: none"> a) Name of Consumer. b) Load details of the building where rooftop is to be installed as under: Name of Division, Sub-Division, Consumer Name, Consumer No., Address, Tariff, Contract Demand/ Load, Connected Load c) Name of 11 KV feeder, Transformer capacity, Solar Rooftop capacity already connected as well as approved/sanctioned on this transformer including this proposed Solar Rooftop capacity whether total Rooftop solar capacity is within the rated capacity of transformer. d) Maximum demand recorded during last one year. e) No dues certificate. f) Estimate if any, to be recovered from applicant. Such estimate shall include details of works to be carried out for system strengthening for providing connectivity and evacuation facility of surplus power to be injected by the applicant, if estimate is not recovered based on Per KW/Per KVA charges. 	10 Days from the letter of Head Office.
6	Post TFR	<p>On receipt of TFR from field, Head Office shall issue letter to applicant regarding 'In Principle' consent for connectivity, payment of connectivity charges and execution of connectivity agreement within 15 days.</p> <p>OR</p> <p>Issuing estimate subject to Regulation 5.1, to Applicant for system strengthening to be paid within 30 days, payment of connectivity charges and execution of connectivity agreement.</p>	2 days from receipt of TFR from field office
7	Signing of connectivity agreement and issuance of letter to applicant for completion of project work	<p>Case 1 (No system strengthening required)</p> <p>On payment of Connectivity Charges and execution of Connectivity Agreement within 15 days of consent. Letter to applicant to complete the project work within 6 months</p>	5 days from execution of agreement

Sr. No.	Activity	Sub Activity	Duration in day(s)
		Case 2 (If system strengthening required) On payment of Connectivity Charges and execution of Connectivity Agreement within 30 days along with payment of estimate, if any. Letter to applicant to complete the project work within 6 months.	5 days from execution of agreement
8	System strengthening by Distribution Licensee	Distribution Licensee to complete the work of system strengthening.	15 days from date of payment of connectivity charges and execution of connectivity agreement.
9	Notice to Applicant for commissioning	Issuance of two months' notice to applicant for commissioning of the project on expiry of 6 months project completion period.	Within 5 days on expiry of 6 months
10	In case of non- completion of work by applicant	If no intimation received from Applicant on expiry of 2 months' notice period, application shall be cancelled informing the applicant within 30 days forfeiting all charges paid for Solar Rooftop Project.	Within 5 days on expiry of 2 months
11	On completion of work by Applicant	Intimation to Applicant to submit following documents within 3 days: (if not submitted along with intimation of commissioning by applicant) 1. Ownership of Solar PV system 2. Installation charging approval of Chief Electrical Inspector (CEI) 3. Meter/CTPT testing certificate from High-tech lab and ERDA. 4. All equipment should comply with IEC standards. Applicant to submit relevant IEC certificate/test reports for all equipment's i.e. for modules/SPV/ inverters/ cables/ junction box/ Transformer /RMU/CTPT/meter etc. 5. Installation of proper protection system (inverter shall have anti islanding feature) along with second line of protection such as no volt relay, (for Solar PV System above 10 Kw), applicant has to pay connectivity charges and execute connectivity agreement with Distribution Licensee. Note: If Applicant is not submitting above documents within 3 days, application shall be cancelled forfeiting all charges paid for Solar Rooftop Project.	3 days from receipt of completion letter from applicant
12	Intimation to Field Office	Upon receipt of documents from the Applicant, intimation to Field Office/Sub- division for installation of meter (Solar meter to record total generation and bidirectional/ABT meter for net metering).	2 days from receipt of documents from the applicant
13	Report from field/sub-division	Installation of meter (Solar meter to record total generation and bidirectional/ABT meter for net metering) and intimate to applicant and report to HO	5 days from receipt of letter from HO

Sr. No.	Activity	Sub Activity	Duration in day(s)
14	Intimation to GEDA or agency designated by the Government of Gujarat	Distribution Licensee shall intimate to GEDA or agency designated by the Government of Gujarat for issuing commissioning certificate	2 days from receipt of letter from Distribution Licensee
15	Issuance of Commissioning Certificate from GEDA or agency designated by the Government of Gujarat	GEDA or agency designated by the Government of Gujarat shall visit the site in consultation with Distribution Licensee and applicant and issue Commissioning Certificate	3 days from the receipt of intimation from applicant

Provided that the application for Rooftop Solar Photovoltaic systems upto 10 kW capacity, complete in all respect shall be deemed to have been accepted without requiring technical feasibility study and any commensurate enhancement of the sanction load of the consumer, as may be required, shall be carried out by the Distribution Licensee.

Provided further that in case of any delay on the part of distribution licensee without any just cause, the Licensee shall be liable to pay compensation to the consumer at a rate which shall not be less than five hundred rupees per day for each day of default.

5. **Clause 8.1 of the Connectivity Agreement at 'Annexure IV' of Regulations shall be substituted as under:**

8.1. The recovery of cost from the Applicant for strengthening of distribution infrastructure, including distribution transformer shall be governed as per Regulation 5.1.

RANJEETH KUMAR J. IAS,

Secretary

Place: Gandhinagar

Gujarat Electricity Regulatory Commission

Date: 04/09/2024

Gandhinagar, Gujarat.



Government Central Press, Gandhinagar.

Signature Not Verified

Signed by: BHOLUSINGH G THAKUR
 Date: 2024.09.13 14:10:23 +05:30
 Reason: Validate Document
 Location: Government Central Press, Gandhinagar

No.: 318/17/2024-Grid Connected Rooftop
Ministry of New and Renewable Energy
Government of India

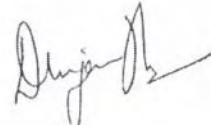
Atal Akshay Urja Bhawan
Lodhi Road, New Delhi-110003
Dated 07.06.2024

Office Memorandum

Subject: Operational Guidelines for Implementation of PM Surya Ghar: Muft Bijli Yojana for the component "CFA to Residential Consumers"

This refers Ministry's order No. 318/17/2024-GCRT Division dated 16th March 2024 vide which sanction was issued for the PM-Surya Ghar: Muft Bijli Yojana, aimed at installing rooftop solar plants in one crore households, with a total financial outlay of Rs. 75,021 crore.

2. The operational Guidelines for the implementation of PM Surya Ghar: Muft Bijli Yojana for the component "CFA to Residential Consumers" are enclosed.
3. This issues with the approval of competent authority.



(Divyanshu Jha)
Deputy Secretary
d.jha1989@ias.nic.in

To

1. ACS/Principal Secretaries/Secretaries (Renewable Energy/Energy/Power) of all States/UTs
2. CMDs/MDs of Discoms/State Nodal Agencies of all States/UTs
3. Chairperson, All State/Joint Electricity Regulatory Commission

Copy for information to:

1. PS to Hon'ble Minister of New & Renewable Energy
2. PS to Hon'ble Minister of State of New and Renewable Energy
3. PPS to Secretary/AS/JS/JS&FA, MNRE
4. All Advisers & Group Heads
5. Director (NIC) for uploading on Ministry's website

Guidelines for PM-Surya Ghar: Muft Bijli Yojana

Central Financial Assistance to Residential Consumers

1) Background

a) The Government of India has approved the PM Surya Ghar: Muft Bijli Yojana on 29th February, 2024 to increase the share of solar rooftop capacity and empower residential households to generate their own electricity. The scheme has an outlay of Rs 75,021 crore and is to be implemented till FY 2026-27. The administrative approval was granted to the scheme vide Order No. 318/17/2024-Grid Connected Rooftop dated 16th March, 2024.

b) The Financial Outlay for the scheme includes the following components:-

S. No.	Scheme Component	Outlay
1.	CFA to Residential Consumers	₹ 65,700 crore
2.	Incentives for Discoms	₹ 4,950 crore
3.	Model Solar Villages in each district	₹ 800 crore
4.	Incentives for Local Bodies	₹ 1000 crore
5.	Payment Security Mechanism	₹ 100 crore
6.	Innovative Projects	₹ 500 crore
7.	Capacity Building (1% of CFA)	₹ 657 crore
8.	Awareness & Outreach (1% of CFA)	₹ 657 crore
9.	Service Charge (1% of CFA)	₹ 657 crore
	Total	₹ 75,021 crore

2) Scope

a) These guidelines pertain to the implementation of Component 1 “Central Financial Assistance (CFA) to residential consumers” under the capex mode for eligible consumer categories only.

b) The guidelines pertaining to other components of the scheme shall be issued separately.

- c) These guidelines shall be applicable for all applications received on the National Portal from the date of the launch of the scheme, i.e. 13th February, 2024.
- d) The implementation period of the scheme shall be till 31st March, 2027.

3) Aim and Objectives of PM – Surya Ghar: Muft Bijli Yojana

The key objectives of the scheme are:

- a) To achieve 1 crore rooftop solar system (RTS) installation in residential sector.
- b) To help provide free/low-cost electricity to 1 crore households up to 300 units of electricity per month by installation of rooftop solar.
- c) To produce renewable electricity of 1,000 billion units through the capacity installed under the scheme, which will result in reduction of 720 million ton of CO2eq emission during the 25 years of lifetime for rooftop solar projects.
- d) To develop the required enabling ecosystem for rooftop solar projects, including regulatory support, manufacturing facilities, supply chain, vendor network, operation & maintenance facilities, etc., in the country.
- e) To boost local economy and employment generation along with enhanced energy security
- f) To aid in achievement of India's commitment for green climate through its NDCs (Nationally Determined Contributions) at UNFCCC by installation of 30 GW of solar capacity through rooftop solar by 2026-27

4) Transition From Existing Scheme

- a) The Ministry of New and Renewable Energy has been implementing the Grid Connected Rooftop Solar Phase II Programme since 2019, which was proposed to be implemented till 2025-26 with a budgetary outlay of Rs 11,814 crores. This scheme stands subsumed within the PM Surya Ghar: Muft Bijli Yojana.
- b) The CFA and other releases for the PM – Surya Ghar: Muft Bijli Yojana shall be made from the budgetary outlays of Rooftop Solar Phase II Programme till the dedicated budget allocation for the scheme is operational and disbursements can be made from it.

- c) Once the new scheme budget is operational, the budget of Phase II programme will get subsumed into the new scheme, and the new scheme funds shall be utilized for meeting the ongoing liabilities of the Phase II programme also.
- d) The CFA releases for ongoing projects against allocations made by MNRE to implementation agencies under Phase II shall be governed by the guidelines issued under the Phase II programme and shall not be covered under the PM – Surya Ghar Scheme CFA structure. However, the budgetary releases for phase II programme shall be met through the new scheme outlay.
- e) The Phase II programme was implemented in Tender Mode as well as through National Portal. The applicability of CFA rates for claims submitted under Phase II programme has been defined in Annexure 1 for greater clarity.

5) Central Financial Assistance

- a) The scheme will support the installation of grid-connected rooftop solar projects in the residential sector through Central Financial Support (CFA) support from the Central Government.
- b) **Eligibility:** For the purpose of CFA, residential RTS plant would be the grid connected solar power system tagged to a particular residential power connection of the local DISCOM and will only include installations on a roof/terrace/balcony or on top of elevated structures. Special RTS installations such as Building Integrated PV (BiPV) systems shall also be considered eligible for CFA support. To clarify, installations under metering mechanisms such as Group Net Metering and Virtual Net Metering shall be eligible for CFA if the installations are on any roof/terrace/balcony or on top of elevated structures or as BiPV and the metering arrangement is approved by the DISCOM.
- c) **Capex Mode:** The Capex mode is considered to be one wherein the consumer herself, either through her own capital or through borrowings from financial institutions or otherwise, funds the initial investment into the rooftop solar system. To clarify, these guidelines do not cover RESCO models (where a third party entity other than the consumer makes the initial investment) or Utility Led/State Led Aggregation Models (where a state entity invests on behalf of consumers on an aggregate basis). These modes will be dealt separately in other guidelines.

- d) No CFA will be provided to non-residential segments of consumers (including government segment, commercial and industrial segment etc.).
- e) **CFA Structure:** The Central Financial Assistance for the residential sector shall be as per the following table:

S. No.	Type of Residential Segment	CFA
1.	Residential Sector (first 2 kWp of RTS capacity or part thereof)	60% of benchmark cost of 2 kWp
2.	Residential Sector (with additional RTS capacity of 1 kWp or part thereof)	40% of benchmark cost of additional kWp
3.	Residential Sector (additional RTS capacity beyond 3 kWp)	No additional CFA
4.	Group Housing Societies/ Residential Welfare Associations (GHS/RWA) etc, for common facilities including EV charging up to 500 kWp (@3 kWp per house)	As per CFA of S. No. (2) above

For GHS/RWAs, the upper limit of CFA supported RTS capacity is inclusive of individual rooftop plants installed by individual residents in the GHS/RWA.

- f) The GHS/RWA connection eligible under the scheme shall be dedicated only for common facilities and should not be utilized for providing electricity supply to residential consumers within the GHS/RWA.
- i) The CFA support will generally be provided to entities created by residents for overall maintenance and that are responsible for upkeep of common facilities and these may be known by alternative terminologies such as Apartment Owner Associations (AOAs), Cooperative Housing Societies etc.

g) **Benchmark Cost:** The benchmark cost for 1 kW system is fixed at ₹ 50,000/kW for the first 2 kW of RTS capacity and ₹ 45,000 for the additional kW with effect from 13th February, 2024. The benchmark for special category States (States/UTs of Uttarakhand, Himachal Pradesh, J&K, Ladakh, States in the North East including Sikkim, UTs of A&N and Lakshadweep) will be Rs 55,000 for first 2 kW of RTS capacity and Rs 49,500 for the additional kW of RTS capacity.

h) **Effective CFA:** The CFA for the scheme with effect from date of initiation, i.e., 13th February, 2024 is as follows:-

S. No.	Type of Residential Segment	CFA	CFA (Special Category States)
1.	Residential Sector (first 2 kW _p of RTS capacity or part thereof)	Rs 30,000/kW _p	Rs 33,000/kW _p
2.	Residential Sector (with additional RTS capacity of 1 kW _p or part thereof)	Rs 18,000/kW _p	Rs 19,800/kW _p
3.	Residential Sector (additional RTS capacity beyond 3 kW _p)	No additional CFA	No additional CFA
4.	Group Housing Societies/ Residential Welfare Associations (GHS/RWA) etc, for common facilities including EV charging up to 500 kW _p (@3 kW _p per house)	Rs 18,000/kW _p	Rs 19,800/kW _p

To illustrate

- If a consumer installs a system of 1.5 kW, she is eligible for a CFA of ₹ 30,000 x 1.5 = ₹ 45,000*
- If a consumer installs a capacity of 2.5 kW, she is eligible for a CFA of ₹ 30,000 x 2 + ₹ 18,000 x 0.5 = ₹ 69,000*

- iii. *If a consumer installs a capacity of 6 kW, she is eligible for a CFA of ₹ 30,000x2 + Rs18,000x1 = ₹ 78,000*
- iv. *If an RWA installs a capacity of 100 kW, with 20 households, it will be eligible for a CFA of ₹ 18,000x60 kW (Lower of (20x3 kW), 100 kW) = ₹ 10,80,000*
- v. *If an RWA installs a capacity of 100 kW, with 50 households, it will be eligible for a CFA of ₹ 18,000x100 kW (Lower of (50x3 kW), 100 kW)= ₹ 18,00,000*
- i) **Additional State Subsidy:** The State/UT governments may supplement the CFA provided by the central government for the residential sector with an additional subsidy for RTS; however, this shall be subject to adherence to all scheme guidelines by the State. The framework of such support by the State/UT governments shall be in alignment with the support provided under the scheme. The process for disbursement of state subsidy component shall be integrated with the National Portal.
- j) **Revision of Benchmark Cost:** The benchmark cost will be revised at the time of midterm review of the scheme to reflect changed market trends, if any, or earlier in case of substantial upward revision in module prices for unforeseen reasons. The benchmark will reflect changes in solar module supply prices, inverter costs and other systems costs as per the methodology defined by the Ministry of New and Renewable Energy. In case of upward revision of benchmark rates and consequent increase in requirement of budgetary support, necessary approvals in consultation with Department of Expenditure shall be taken separately by the Ministry to revise the scheme targets appropriately.
- k) **Sizing of Inverter:** The CFA shall be irrespective of the size of the inverter installed. If a consumer installs a rooftop solar plant with a higher/lower rated inverter capacity than the number of modules, the CFA provided will be as per the rated DC capacity of the module system (according to the CFA structure) and not as per the inverter capacity. The inverter should, however, meet the technical specification defined in the scheme.
- l) **Additional Components:** The rooftop solar installation may include additional technology components such as small wind hybrids, battery storage, solar tracker systems etc. However, the CFA calculation shall be based on the CFA structure under the scheme as per capacity of solar modules installed in the system.

- m) **Domestic Content Requirement:** Solar modules used in the installation must satisfy the Domestic Content Requirement condition i.e., domestically manufactured modules manufactured from domestically manufactured cells. This is an essential condition for the installation to be eligible for the CFA. Use of non-DCR modules in any form in the installation shall render the installation ineligible for CFA.
- n) **Pre-existing RTS:** A rooftop solar installation by residential consumers/RWAs that has availed CFA under a prior/current scheme for rooftop solar by Ministry of New and Renewable Energy and has subsequently increased the RTS installation size shall be eligible for additional CFA under the current scheme only for the balance capacity up to 3 kW of overall RTS plant size.
 - (1) For example, if a household had installed a RTS of 1 kW under Phase 2 Grid Connected Rooftop Solar Scheme and availed a subsidy of Rs 14,588, and if such a household enhances the total capacity to 4 kW overall, in such a case, the household shall be eligible to claim an additional subsidy under the current scheme only for the additional 2 kW capacity, i.e. Rs 48,000.
 - (2) Alternatively, if a household installs a RTS of 1 kW under PM – Surya Ghar scheme and avails a subsidy of Rs 30,000, and if such a household later enhances the total capacity to 4 kW overall, in such a case, the household shall be eligible to claim an additional subsidy under the current scheme only for the additional 2 kW capacity, i.e. Rs 48,000.
- o) A rooftop solar installation shall be eligible for CFA only once after installation. If an already installed rooftop solar is shifted/relocated to a new location, such a system shall not be eligible for CFA under the scheme.
- p) **Give It Up:** Consumers will have the option to forgo the CFA under the scheme so that the scheme benefits can reach a wider cross-section of consumers. This will be enabled by a “Give It Up” option on the National Portal. Consumers who opt for installing RTS without availing CFA under this scheme, including those who may wish to forgo the RTS CFA (under the “Give It Up” campaign or otherwise) shall be free to do so without using domestically manufactured cells/modules (Domestic Content Requirement or DCR).

6) Method of Implementation

- a) **National Portal:** Any eligible consumer shall avail the benefits of the scheme only through the PM Surya Ghar National Portal (hereinafter referred to as "Portal" or "NP").
- b) **Eligible Consumer:** Any interested consumer with a valid Consumer Account Number (or its equivalent consumer ID) for a Distribution Utility (Distribution Companies, or in some cases Power/Energy Department of the state wherever applicable) shall apply on the National Portal. The Portal shall generate an application ID for the application. The consumer shall be assisted on the National Portal with informational aids, audio visual material and other decision-making tools to decide on rooftop solar installation and its possible configurations.
- c) **Choice of Vendor:** The consumer shall then choose a vendor who is registered on the National Portal. The consumer shall be free to enter into arrangements with any such RTS vendor at mutually decided rates. There shall be no tendering or rate discovery by the state DISCOMs/agencies under the scheme to empanel RTS vendors as was being carried out in the Phase II program. The portal shall include a mechanism of vendor comparison so that consumer can make a better decision in finalizing the vendor of choice.
- d) **Finalization of Terms:** The consumer shall mutually decide with the vendor on the system design, system components, system quality, additional functionalities, localized design requirements etc. Based on the mutually decided system design, the consumer shall also mutually agree with the vendor on the financial terms and conditions. The vendor and the consumer may sign an agreement covering these aspects. A suggested sample vendor-consumer agreement is attached at Annexure 2, however, the actual agreement may vary on a case-to-case basis.
- e) In order to protect the interests of the consumers, the National Portal will provide comprehensive informational material, decision making tools, system and vendor comparison tools etc. so that the consumers can make an informed choice.
- f) **Minimum Technical Specifications:** The Ministry shall identify the minimum technical specifications to be adhered to by all vendors for RTS systems installed under the scheme. It will be the responsibility of the vendors to ensure that the system meets the minimum technical specifications as detailed in Annexure 3. This will also be checked by the DISCOMs at the time of inspection.

- g) **Indicative Costs of Components:** The Ministry will publish indicative costs of system components (modules, inverters and other important equipment) for the benefit of consumers in order to ensure that consumers are not overcharged.
- h) **Feasibility Approval:** As per the provisions of the Electricity (Rights of Consumers) Rules, 2020 and subsequent amendments, applications for rooftop solar systems up to 10 kW capacity shall be deemed to have been accepted without requiring approval of technical feasibility by the DISCOMs. Till the operationalization of this provision by respective Regulatory Commissions/DISCOMs, the consumer shall upload the necessary documents for seeking feasibility approval, wherever required as per extant state regulations.
- i) **Vendor Installation:** The vendor shall install the system, conduct necessary safety and other checks and also educate the consumer on various aspects of RTS maintenance and safety and provide informational material to the consumer as appropriate.
- j) **Portal Updation:** After the vendor has completed the installations, the consumer shall update the system details on the portal and upload all the relevant documents including geo-tagged photographs as required on the portal. The vendor may assist the consumers in filling up the necessary details through the consumer login. Subsequently, the application will move to the DISCOM.
- k) **DISCOM Inspection:** The concerned DISCOM shall conduct a physical inspection of the system, sign the appropriate agreements with the consumer (net meter agreement or otherwise), conduct a checklist-based inspection as per the National Portal and approve the application on the National Portal for release of CFA. Alternatively, the DISCOMs may send back the application for corrections or reject the claim with adequate justification. The CFA will be processed only after the DISCOM has physically verified the system and completed the process on the Portal.

- l) **Meter Installation and Agreement:** The meter shall be installed by DISCOM after rooftop installation is complete and the DISCOM and the consumer will sign the appropriate metering agreement as per state regulations. The net meter will be provided by the DISCOM or the consumer may procure the net meters from enlisted meter vendors. A model net metering agreement is shown at Annexure 4. However, the actual agreement may vary. All metering arrangements (net metering, gross metering, net billing, virtual net metering, group net metering etc.) approved by the respective Electricity Regulatory Commissions of States/UTs shall be covered under the scheme.
- m) **Metering in AMISP Areas:** For the purpose of net metering, in the areas where the Smart Metering works have already been awarded under Revamped Distribution Sector Scheme (RDSS), DISCOMs/PDs (Power Departments) should mandatorily get the Smart Meters installed through the AMISP (Advance Metering Infrastructure Service Provider).
- n) **Metering in Non-AMISP Areas:** In case the Smart Metering works are yet to be awarded under RDSS, the net meters should be installed (preferably Smart Meters with 4G Cellular NIC card) as per manufacturers empaneled list and technical specifications published by Central Electricity Authority in its website.
- o) **Non Metered Grid Connected Systems:** Systems that are not feeding into the grid but are connected to the grid (behind-the-meter systems, battery hybrid systems etc.) shall be eligible for CFA under the scheme subject to approval by the respective Electricity Regulatory Commissions. In such cases, the DISCOM will inspect the installation, ensure the functioning of the reverse power relay protection and incorporate suitable remarks in the report. However, Off-grid connected installations will not be eligible for CFA under the scheme.
- p) **E-Token:** The release of the CFA shall be operationalized through an e-token. The e-token will be generated after submission of application on the National Portal and will be visible on the consumer profile in the Portal. After the necessary documents have been uploaded and inspection by the DISCOM has been completed, the e-token shall be activated with the amount of eligible CFA as per the actual installed capacity. The e-token shall then be redeemed by the consumer by logging into her profile on the Portal and the CFA shall subsequently be released to the consumer account.

- q) **Financing:** The consumer may also opt for financing through the National Portal. The loan products of various banks and financial institutions will be available on the NP and the consumer may opt for any of them through integration provided by Jan Samarth Portal or through other Financial Institutions directly.
- r) **Loan Products:** It is envisaged that standardized low interest loan products in the range of benchmark rates (Repo + 50 bps) for installation of residential RTS systems that are up to 3 kW in size will be made available to the consumers by Banks.
 - i) These financing options shall be supplemented by standardized products of similar nature for non-subsidized segments also, including residential sector RTS of sizes more than 3 kW. The standard loan products from Banks/FIs will be published on the portal.
- s) **Consumer Account Details:** All consumer details including bank account information and a cancelled cheque image/bank e-statement file/passbook scan or any other electronic document certifying that the bank account number is held by the concerned consumer must be submitted on the National Portal by the consumer.
 - i) In case the consumer has opted for a loan product to finance the rooftop solar installation, the consumer profile shall also include the loan account details (entered by the Consumer or through integration with banking portals). On redemption of the e-token in such cases, the CFA will be transferred to the loan account of the consumer. If the CFA exceeds the outstanding loan amount of the consumer, the CFA will be disbursed to the consumer's loan account in the bank up to the amount of loan outstanding, with the remainder disbursed into the consumer's bank account.
- t) **Processing of Claims:** The CFA will be processed within 15 days of approval by the concerned DISCOM.

7) Vendor Registration and Performance

- a) **Registration of Vendors:** The scheme shall be implemented only through the vendors registered on the National Portal i.e. a consumer has to choose a registered vendor for availing CFA under the scheme.

- b) **Registration Levels:** The vendors shall have the option to register with the state DISCOMs/state agencies for state level registration and with the National Programme Implementation Agency (NPIA) for national/multi-state/state level registration as per procedure prescribed by MNRE. In case of multiple DISCOMs within a state, the state government shall identify a nodal DISCOM/agency which shall undertake vendor registrations on behalf of all DISCOMs of that state.
- c) **Vendor Profiles:** The registered vendors will be able to create their profiles on National Portal, including RTS system specifications offered, prices offered and key contacts for consumers to reach out to. The consumers will be able to raise requests for enquiries through the portal and it is also expected that the vendors will respond to interest expressed by consumers in a timely and reasonable manner. The vendor profile will also include vendor rating, details about consumer feedback and other data relating to the performance of the vendor on completed/ongoing projects for which they are the designated vendors.
- d) **Services:** Registered vendors shall provide the services to the consumers for repairs/maintenance of the RTS plant free of cost for 5 years of the Comprehensive Maintenance Contract (CMC) period from the date of commissioning of the plan. Non-performing/ under-performing system component will be replaced/repaired free of cost in the CMC period. The consumer shall be provided with the warranties given by the respective OEMs on the system components for any future replacement of malfunctioning components. Any deficiency of the RTS system leading to non-disbursal of CFA/non-commissioning of the RTS by the DISCOM on account of system quality/component issues shall be rectified by the vendor. In all cases, the vendors shall adhere to the minimum technical specifications provided in the scheme in their installations.
- e) **Penalties:** The Implementing agency (State DISCOM or agency) or MNRE officials or any other designated agency may inspect the ongoing installation or installed plants. In case the systems are not as per standards, nonfunctional on account of poor quality of installation, or in non-compliance of scheme guidelines, the respective registering authority will reserve the right to de-register the vendor and/or levy such penalties as may be prescribed, after giving due notice to the vendor.

8) Functionalities in the National Portal

- a) The National Portal is currently live and functional, however over the period of the implementation of the scheme, various value additions and feature enhancements will be undertaken for up gradation of the portal. These enhancements inter alia may include the following:-
 - i) **Integration with State Portals:** The National Portal will provide a seamless and fully integrated experience to prosumers in the residential sector. The portal will be fully integrated with State DISCOM portals for a harmonized experience for consumers in all stages of rooftop installations, including requests for net metering, load sanctions, inspections etc.
 - ii) **Platform Services:** The portal will create a public platform on which other applications, websites, financing intermediaries and e-commerce sites can plug into, through Application Programming Interfaces (APIs) and provide additional services for citizens.
 - iii) **GIS based Services:** The portal will be augmented with GIS based services to enable better decision making and visualization of RTS systems for vendors and consumers. The GIS based system planning will also be integrated with PM-Gati Shakti Portal to leverage additional functionalities and optimize power systems planning.
 - iv) **Marketplace for Vendors:** The National Portal will create a transparent and open marketplace for vendors by adding vendor feedback and vendor performance on the portal.
 - v) **Multimode Messaging:** The National Portal will be accessible through apps, chatbots and WhatsApp also, enabling wider outreach to all segments. The Portal will also generate multi-level triggers for delays in DISCOM inspection and net meter installations and the DISCOMs shall be encouraged to ensure timely commissioning of RTS plants, once the vendors have installed the systems.
 - vi) **Other Value Added Services:** There shall be other value-added activities such as providing basic financial modelling of the proposed system and consumer's return period, entry of technical parameters of the system.

- vii) **Integration with Banks:** The portal will provide integration with banking products offered by various financial institutions and will promote digital-only products for ease of use by the consumers. Integration with Jan Samarth portal shall be done to ensure bidirectional flow of information to and from the National Portal to the respective financial institutions and to ensure tagging of loan account of consumer to the application on National Portal.
- viii) **Give It Up:** The facility for forgoing CFA under the scheme as a part of the "Give It Up" campaign shall be created on the National Portal. Such consumers would still be able to access all facilities of the National Portal as well as linkages with banks for necessary financial products as per availability. This segment will benefit from non-financial easement of processes and standardized financing products created by banks through the National Portal.
- ix) **Generation and Benefits Tracking:** The National Portal will receive generation data from connected inverters/smart meters for providing better analytical services to the consumer as well as to assist DISCOMs in collecting data. In case the RTS generation data (intermittent or real-time or near real-time) of an RTS is being received by the vendor through SIM/dongle/Wi-Fi etc., access to that data shall be provided by the vendor to the National Portal. This will enable tracking of the RTS generation data on the National Portal.
- b) **Active Applications:** MNRE may specify a time period for which an application shall be kept active on the National Portal from the date of application, after which the application shall be deemed to be dormant. In case such period is specified, the applicant would be able to reactivate the dormant application at any time through the consumer profile on the National Portal subject to the overall limit of 1 crore active applications.
- c) **Limit on Active Applications:** As the scheme is fund limited, the receiving of applications on the National Portal shall be limited to 1 crore active applications and only these applications shall be considered for release of CFA. Once this limit is reached, MNRE may specify a time period for completion of installations so as to ensure achievement of scheme target of 1 crore installations.

d) **Applicant Login:** Applicant login will be provided on the national portal to undertake relevant activities pertaining to each installation including updating of status of installation, technical specifications of the system installed, grievance redressal, uploading of relevant pictures (pre and post installation) and other items. The consumer has the user rights to undertake all activities on the National Portal without relying on the vendor.

9) System Components and Minimum Technical Specifications

System Components: A Roof Top Solar (RTS) Photo Voltaic (PV) system shall generally consist of equipment/components like Solar Photo Voltaic (SPV) modules, Inverter/micro inverters, Module Mounting structures, Energy Meter, Array Junction Boxes, DC Distribution Box, AC Distribution Box, Protections – Earthing, Lightning, Surge, Cables, Drawing & Manuals and any other necessary component based upon the site requirement. The installations under the scheme that shall be commissioned shall adhere to the minimum technical specifications and quality standards as published by MNRE (Detailed in Annexure 3, as may be amended from time to time). Consumers may install specifications that are higher than these standards and will still be considered eligible under the scheme.

10) Ensuring Quality of Installations

a) **Inspections and Evaluations:** The Scheme Implementation Agencies (National Programme Implementation Agency (NPIA) nationally and State Implementation Agencies (SIA) at State level) as well as other designated agencies by State/UT governments shall conduct regular inspections/evaluation of RTS systems installed under the scheme, both at the time of commissioning and post commissioning.

b) **Third Party Assessment:** The NPIA shall establish adequate mechanism to ensure independent third party assessment of RTS installations of at least 1% of installed systems on a pan-India basis.

- c) **SIA Monitoring:** The SIA may establish adequate mechanism to ensure post-commissioning inspection of installed systems on a sampling basis. The SIA may conduct additional independent third party assessments of systems.
- d) **Vendor Rating:** All the vendors registered on the National Portal will be given a vendor rating depending on the size and scale of installations done, quality of equipment, quality of workmanship, quality of service and other criteria. This vendor rating will be visible to the consumers on the National Portal. Detailed methodology regarding vendor rating will be as prescribed by MNRE.

11) Grievance Redressal

- a) The consumers and vendors can raise grievances through the National Portal that will be channeled for resolution to the SIA/ NPIA. The grievances will be resolved within a period of 30 days.
- b) The consumers and vendors will get regular updates regarding status of grievances through SMS, emails and other channels of communication.
- c) The grievances may be raised through the National Call Centre, National Portal or the Portal app. In each case, a unique tracking ID will be created by the NPIA for the consumer to track the status of resolution of the grievance through an online system.

12) Memorandum of Understanding

- a) A Memorandum of Understanding (MoU) will be signed under the scheme between Ministry of New and Renewable Energy and the State/UT Energy Department within 3 months of notification of these guidelines. The Draft MoU between MNRE and the State/UTs is as per Annexure 5.
- b) Release of funds under other scheme components (Incentives to DISCOMs, Model Solar Village, Incentives to PRIs/ULBs, Payment Security Mechanism etc.) to State/UTs or entities under the State/UTs will be conditional to signing of the MoU with the concerned State/UT.
- c) The MoU will also be mandatory for allowing the release of additional state/UT subsidy for RTS to consumers under the scheme.

13) Implementation Agency

- a) REC Limited shall initially be the Implementation Agency at the national level (National Programme Implementation Agency (NPIA)) and will undertake activities relating to operation of the National Portal and registration of vendors at the national level as well as all other scheme related activities. However, MNRE will have the discretion to designate any other agency as the NPIA as per any exigency.
- b) The Distribution Utility (DISCOMs or Power/Energy Departments, as the case may be) shall be the State Implementation Agencies (SIA) at the State/UT level and shall ensure adherence to timelines specified for provisioning of services for prosumers and shall coordinate with NPIA on matters pertaining to performance of vendors registered on the National Portal, grievance redressal, programme monitoring at State/UT level and other responsibilities ascribed to it by MNRE from time to time.

14) Fund Release Mechanism

- a) The NPIA will assess the expected liabilities for each quarter for release of CFA to consumers under the scheme (consumers under PM Surya Ghar: Muft Bijli Yojana and consumers under Phase II Simplified Procedure) and status of expenditure against previously sanctioned releases and make necessary requisitions for release of funds to MNRE.
- b) MNRE will process such requisitions and release funds from time to time in accordance with norms of Government of India in order to ensure that the CFA is disbursed to consumers without delay.
- c) For liabilities under the RTS Phase II programme (Tender mode), MNRE will process the claims in accordance with Phase II scheme guidelines and issue necessary sanctions for release of funds.
- d) The Implementing agencies will remit the accrued interest and other charges to Consolidated Fund of India as per Rule 230 (8) of General Financial Rules, 2017 and its amendments.

15) Scheme Monitoring

- a) A Group of Ministers will be constituted for overall guidance and coordination with states.
- b) A Steering Committee under the chairmanship of Cabinet Secretary and including Secretaries of Ministry of New and Renewable Energy, Department of Financial Services, Ministry of Power, Ministry of Housing and Urban Affairs and Ministry of Rural Development will monitor the implementation of the scheme.
- c) The Mission Directorate in the Ministry of New and Renewable Energy will be responsible for the implementation of the scheme. The Directorate will be headed by a Mission Director not below the rank of Joint Secretary to Government of India. The NPIA will function under the directions of the Mission Directorate.
- d) There will be a State Level Coordination Committee headed by the Chief Secretary/Advisor to Lieutenant Governor/Administrator and comprising of Secretaries of key departments to coordinate and monitor the implementation of the scheme in the State/UT.
- e) There will be a District Level Committee headed by the District Magistrate/District Collector and comprising of other members for monitoring the implementation of the scheme at the district level.

16) Amendment of Scheme Guidelines

- a) MNRE may make necessary amendments in the scheme guidelines within the overall spirit of the Cabinet approval or issue any clarification to remove difficulties in the implementation of the scheme, as and when required, with the approval of Hon'ble Minister, New and Renewable Energy.

Annexure 1

Coverage of applications under PM Surya Ghar: Muft Bijli Yojana

Application received under Phase II rooftop solar programme (before 13 th Feb 2024)		
Sr. No	Parameter	Applicable Subsidy
1	First instance of claims submission before 5 th Jan	Rs. 14,588/kW for upto 3 kW capacity and thereafter Rs. 7,294/kW till 10kW capacity (Subsidy prevailing before revision on 05.01.2024)
2	First instance of claims submission on and after 5 th Jan	Rs. 18,000/kw for upto 3kW capacity and thereafter Rs. 9,000/kw till 10kW capacity (revised subsidy as per notification dated 05.01.2024)
<i>Note: all applications received prior to launch of PM - Surya Ghar : Muft Bijli Yojana (before 13th Feb 2024 will be covered under the Phase II rooftop solar programme) and will be eligible for the CFA as indicate above. All applications submitted under the Phase II of rooftop solar programme will be admissible for CFA if the claim is received till October 2024. The claims received after October 2024 will not be entertained.</i>		
Application received under PM - Surya Ghar : Muft Bijli Yojana (on and after 13 th Feb 2024)		
1	All applications made on and after 13 th Feb	60% of benchmark cost upto 2 kW capacity and 40% for 1 kW additional capacity. No subsidy beyond 3 kW. (as approved under PM-Surya Ghar: Muft Bijli Yojana)

The CFA claims from installations undertaken in tender mode by respective DISCOMs/implementation agencies under previous programmes for Rooftop Solar will be considered under the guidelines of the respective programmes and not PM Suryaghar. The CFA calculation will also be as per the respective programme guidelines. No new/additional capacity allocation by issuing any sanction under tender mode of GCRT phase II will be allowed on or after 12.2.2024 to the DISCOMs.

Annexure 2

**Model Draft Agreement between Consumer & Vendor for installation of grid connected
rooftop solar (RTS) project under PM – Surya Ghar: Muft Bijli Yojana**

This agreement is executed on ----- (Day) ----- (Month) ----- (Year) for design, supply, installation, commissioning and 5-year comprehensive maintenance of RTS project/system along with warranty under PM Surya Ghar: Muft Bijli Yojana

Between

..... (Name of Consumer) having address at (hereinafter referred to as first Party i.e. /consumer/consumer/purchaser /owner of system).

And

..... (Name of Vendor) having registered office at (hereinafter referred to as second Party i.e. Vendor/ contractor/ System Integrator).

Whereas

First Party wishes to install a Grid Connected Rooftop Solar Plant on the rooftop of the residential building of the Consumer under PM Surya Ghar: Muft Bijli Yojana.

And whereas

Second Party has verified availability of appropriate roof and found it feasible to install a Grid Connected Roof Top Solar plant and that the second party is willing to design, supply, install, test, commission and carry out Operation & Maintenance of the Rooftop Solar plant for 5 year period

On this day, the First Party and Second Party agree to the following:

The First Party hereby undertakes to perform the following activities:

1. Submission of online application at National Portal for installation of RTS project/system, Submission of application for net-metering and system inspection and upload of the relevant documents on the National Portal of the scheme
2. Provide secure storage of the material of the RTS plant delivered at the premises till handover of the system.
3. Provide access to the Roof Top during installation of the plant, operation & maintenance, testing of the plant and equipment and for meter reading from solar meter, inverter etc.
4. Provide electricity during plant installation and water for cleaning of the panels.
5. Report any malfunctioning of the plant to the Vendor during the warranty period.
6. Pay the amount as per the payment schedule as mutually agreed with the vendor, including any additional amount to the second party for any additional work /customization required depending upon the building condition

The Second Party hereby undertakes to perform the following activities:

1. The Vendor must follow all the standards and safety guidelines prescribed under state regulations and technical standards prescribed by MNRE for RTS projects, failing which the vendor is liable for blacklisting from participation in the govt. project/ scheme and other penal actions in accordance with the law. The responsibility of supply, installation and commissioning of the rooftop solar project/system in complete compliance with MNRE scheme guidelines lies with the Vendor.
2. **Site Survey:** Site visit, survey and development of detailed project report for installation of RTS system. This also includes, feasibility study of roof, strength of roof and shadow free area. If any additional work or customization is involved for the plant installation as per site condition and requirement of the consumer building, the Vendor shall prepare an estimate and can raise separate invoice including GST in addition to the amount towards standard plant cost. The consumer shall pay the amount for such additional work directly to the Vendor.
3. **Design & Engineering:** Design of plant along with drawings and selection of components as per standard provided by the DISCOM/SERC/MNRE for best performance and safety of the plant.

4. **Module and Inverter:** The solar modules, including the solar cells, should be manufactured in India. Both the solar modules and inverters shall conform to the relevant standards and specifications prescribed by MNRE. Any other requirement, viz. star labelling (solar modules), quality control orders and standards & labelling (inverters) etc., shall also be complied.
5. **Procurement & Supply:** Procurement of complete system as per BIS/IS/IEC standard (whatever applicable) & safety guidelines for installation of rooftop solar plants. The supplied materials should comply with all MNRE standards for release of subsidy.
6. **Installation & Civil work:** Complete civil work, structure work and electrical work (including drawings) following all the safety and relevant BIS standards.
7. **Documentation (Technical Catalogues/Warranty Certificates/BIS certificates/other test reports etc):** All such documents shall be provided to the consumer for online uploading and submission of technical specifications, IEC/BIS report, Sr. Nos, Warranty card of Solar Panel & Inverter, Layout & Electrical SLD, Structure Design and Drawing, Cable and other detailed documents.
8. **Project completion report (PCR):** Assisting the consumer in filling and uploading of signed documents (Consumer & Vendor) on the national portal.
9. **Warranty:** System warranty certificates should be provided to the consumer. The complete system should be warranted for 5 years from the date of commissioning by DISCOM. Individual component warranty documents provided by the manufacturer shall be provided to the consumer and all possible assistance should be extended to the consumer for claiming the warranty from the manufacturer.
10. **NET meter & Grid Connectivity:** Net meter supply/procurement, testing and approvals shall be in the scope of vendor. Grid connection of the plant shall be in the scope of the vendor.
11. **Testing and Commissioning:** The vendor shall be present at the time of testing and commissioning by the DISCOM.
12. **Operation & Maintenance:** Five (5) years Comprehensive Operation and Maintenance including overhauling, wear and tear and regular checking of healthiness of system at proper interval shall be in the scope of vendor. The vendor shall also educate the consumer on best practices for cleaning of the modules and system maintenance.

13. Insurance: Any insurance cost pertaining to material transfer/storage before commissioning of the system shall be in the scope of the vendor.

14. Applicable Standard: The system must meet the technical standards and specifications notified by MNRE. The vendor is solely responsible to supply component and service which meets the technical standards and specification prescribed by MNRE and State DISCOMs.

15. Project/system cost & payment terms: The cost of the plant and payment schedule should be mutually discussed and decided between the vendor and consumer. The consumer may opt for milestone-based payment to the vendor and the same shall be included in the agreement.

16. Dispute: In-case of any dispute between consumer and vendor (in supply/installation/maintenance of system or payment terms), both parties must settle the same mutually or as per law. MNRE/DISCOM shall not be liable for, and would not be a party to any dispute arising between vendor and consumer.

17. Subsidy / Project Related Documents: Vendor must provide all the documents to consumer and help in uploading the same to National Portal for smooth release of subsidy.

18. Performance of Plant: The Performance Ratio (PR) of Plant must be 75% at the time of commissioning of the project by DISCOM or its authorised agency. Vendor must provide (returnable basis) radiation sensor with valid calibration certificate of any NABL / International laboratory at the time of commissioning / testing of the plant. Vendor must maintain the PR of the plant till warranty of project i.e. 5 years from the date of commissioning.

19. Mutually Agreed Terms of Payment ...

First Party	Second Party
Name	Name
Address	Address
Sign	Sign
Date	Date

Disclaimer: This agreement is between vendor and consumer and any dispute related to the same shall not involve any third party including MNRE and Distribution Utilities.

Annexure 3

**TECHNICAL SPECIFICATIONS FOR ROOFTOP SOLAR PLANTS INSTALLED
UNDER THE COMPONENT OF “CFA TO RESIDENTIAL CONSUMERS” OF
PM-SURYA GHAR: MUFT BIJLI YOJANA**

The projects under PM-Surya Ghar: Muft Bijli Yojana shall be commissioned as per the technical specifications given below. The vendor will be solely responsible for any shortcomings or negligence/malpractice, which may lead to the delisting/blacklisting of the firm/vendor from participation in any programme of the Ministry.

A Roof Top Solar (RTS) Photo Voltaic (PV) system shall be installed on rooftops/terraces/balcony/Building Integrated Photovoltaic (BIPV) or on elevated structures. In case of installation on an elevated structure, the structure must have a minimum ground clearance of 8 feet at the lowest point, in order to be considered eligible for the CFA under the scheme. The RTS system shall consist of the following:

1. Solar Photo Voltaic (SPV) modules consisting of required number of SPV modules
2. Inverter/PCU
3. Module Mounting structures
4. Net Meter/Smart Meter
5. Array Junction Boxes
6. DC Distribution Box
7. AC Distribution Box
8. Protections – Earthing, Lightning, Surge
9. Cables
10. Drawing & Manuals
11. Miscellaneous

Components/Package of Grid Connected Rooftop Solar PV System: The components of a Grid Connected Rooftop Solar PV System shall essentially comprise but not be limited to solar PV Panels/modules of required number, Inverters/PCU, module mounting structures of minimum 600mm ground clearance at the lowest point from the roof surface, total Cable/wiring of suitable length, cable conduits, required array junction boxes, DC distribution box, AC distribution box, various connectors, nut- bolts, civil and mechanical works, Protection-Earthing, lightning, surges, drawing & manual, 05 years of comprehensive operation & maintenance of grid-connected rooftop solar PV plant and other miscellaneous works.

1. Solar PV modules

- 1.1. Domestic Manufactured Solar PV modules using domestically manufactured Solar cells shall be used in the Scheme.
- 1.2. The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS 14286, IEC 61853-Part I or IS 16170-Part I, IS/IEC 61730 Part-1 & Part 2 and IS 17210(part 1) or IEC 62804-1 (PID). For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701. Thin - Film terrestrial photovoltaic (PV) modules must qualify to IS 16077: 2013 / IEC 61646: 2008
- 1.3. The rated power of solar PV module shall have maximum tolerance up to +3%.
- 1.4. The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.5. The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.6. The temperature co-efficient power of the PV module shall be equal to or better than -0.4%/ $^{\circ}\text{C}$ for crystalline modules and -0.3 %/ $^{\circ}\text{C}$ for thin films modules.

- 1.7. Solar PV modules capacity to be used should adhere to the Approved List of Models and Manufacturers (ALMM) of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order 2019 - Implementation issued vide OM NO. 283/54/2018-GRID SOLAR -Part (I) Dated 10th March 2021 and subsequent amendments.
- 1.8. Solar PV modules of minimum fill factor 75%, to be used.
- 1.9. All PV modules should have a nominal power output of >90% at STC during the first 10 years, and >80% during the next 15 years. Further, module shall have nominal power output of >97% during the first year of installation—degradation of the module below 0.5 % per annum
- 1.10. The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (5) years from the date of commissioning.
 - i. Defects and/or failures due to manufacturing.
 - ii. Defects and/or failures due to quality of materials.
 - iii. Nonconformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners sole option. The PV modules shall be replaced by manufacturers, without charging any cost to the end consumer during the specified period of warranty.
- 1.11. Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of Solar Cells.
 - iii. Month & year of the manufacture (separate for solar cells and modules)
 - iv. Country of origin (separately for solar cells and module)
 - v. I-V curve for the module Wattage, I_m , V_m and FF for the module
 - vi. Unique Serial No and Model No of the module
 - vii. Date and year of obtaining IEC PV module qualification certificate.
 - viii. Name of the test lab issuing IEC certificate.

- ix. Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001.
- x. Nominal wattage +3%.
- xi. Name, if applicable.

1.12. Other details as per IS/IEC 61730-1 clause 11 should be provided at appropriate place. In addition to the above, the following information should also be provided:

- i. The actual Power Output Pmax shall be mentioned on the label pasted on the back side of PV Module.
- ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.
- iii. Polarity of terminals or leads (colour coding is permissible) on junction Box housing near cable entry or cable and connector.

1.13. Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, Make in India logo and module wattage details should be displayed inside the laminated glass.

2. Inverter/PCU

2.1 The Solar Photovoltaic Inverters must comply with the Quality Control Order dated 30.08.2017 for Solar Photovoltaic Inverters and its amendments thereof.

2.2 Inverters/PCU should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683, IS 16221 (Part 2), IS 16169 and IEC 60068-2(1,2,14,30)

2.3 /Equivalent BIS Std.

2.4 Maximum Power Point Tracker (MPPT) shall be integrated in the inverter/PCU to maximize energy drawn from the array. Charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS standard. The junction boxes/enclosures should be IP 65 or better (for outdoor)/ IP 54 or better (indoor) and as per IEC 529 Specifications.

2.5 All inverters/PCUs shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.

2.6 The PCU/ inverter shall have overloading capacity of minimum 20%.

2.7 Typical technical features of the inverter shall be as follows-

- i. Nominal AC output voltage and frequency: as per CEA/State regulations
- ii. Output frequency: 50 Hz
- iii. Grid Frequency Synchronization range: as per CEA/State Regulations
- iv. Ambient temperature considered: -20°C to 60°C
- v. Protection of Enclosure: IP-54 (Minimum) for indoor and IP-65(Minimum) for outdoor.
- vi. Grid Frequency Tolerance range: as per CEA/State regulations
- vii. Grid Voltage tolerance: as per CEA/State Regulations
- viii. No-load losses: Less than 1% of rated power
- ix. Inverter efficiency (Min.): >90% (In case of 10 kW or below with in-built galvanic isolation)
- x. The Minimum Overall Efficiency (η_t) as per IS 17980 for Solar Inverters should adhere to the following:
- xi. THD: < 3%
- xii. PF: > 0.9 (lag or lead)
- xiii. Should not inject DC power more than 0.5% of full rated output at the interconnection point and comply to IEEE 519.
- xiv. The inverter should have the inbuilt facility to communicate system related data through SIM/dongle. The inverter may also be enabled for Wi-Fi based communication.

2.8 All the Inverters should contain the following clear and indelible Marking Label & Warning Label as per IS16221 Part II, clause 5. The equipment shall, as a minimum, be permanently marked with:

- i. The name or trademark of the manufacturer or supplier;
- ii. A model number, name or other means to identify the equipment,

- iii. A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a twelve-month time period.
- iv. Input voltage, type of voltage (a.c. or d.c.), frequency, and maximum continuous current for each input.
- v. The Ingress Protection (IP) rating

2.9 In case the consumer is having a 3- ϕ connection, 1- ϕ /3- ϕ inverter shall be provided by the vendor as per the consumer's requirement and regulations of the State.

2.10 Inverter/PCU shall be capable of complete automatic operation including wake-up, synchronization & shutdown.

2.11 Integration of PV Power with Grid & Grid Islanding:

- i. In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided, if not available in inverter.

3. Module Mounting Structure (MMS):

3.1 Supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part shall be in the scope of the work.

3.2 Module mounting structures can be made from three types of materials. They are Hot Dip Galvanized Iron, Aluminium and Hot Dip Galvanized Mild Steel (MS). However, MS will be preferred for raised structure.

3.3 MMS Steel shall be as per latest IS 2062:2011 and galvanization of the mounting structure shall be in compliance of latest IS 4759. MMS Aluminium shall be as per AA6063 T6. For Aluminium structures, necessary protection towards rusting need to be provided either by coating or anodization.

3.4 All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 or hot dip galvanized, panel mounting clamps shall be of aluminium and must sustain the adverse climatic conditions. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.

3.5 The module mounting structures should have angle of inclination as per the site conditions to take maximum insolation and complete shadow-free operation during generation hours. However, to accommodate more capacity the angle of inclination may be reduced until the plant meets the specified performance ratio requirements.

3.6 The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. The PV array structure design shall be appropriate with a factor of safety of minimum 1.5.

3.7 The upper edge of the module must be covered with wind shield so as to avoid build air ingress below the module. Slight clearance must be provided on both edges (upper & lower) to allow air for cooling.

3.8 Suitable fastening arrangement such as grouting and calking should be provided to secure the installation against the specific wind speed. The Empanelled Agency shall be fully responsible for any damages to SPV System caused due to high wind velocity within guarantee period as per technical specification.

3.9 The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Necessary testing provision for MMS to be made available at site.

3.10 Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.

3.11 The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.

3.12 The Rooftop Structures maybe classified in three broad categories as follows:

- i. Ballast structure
 - a. The mounting structure must be Non-invasive ballast type and any sort of penetration of roof to be avoided.
 - b. The minimum clearance of the structure from the roof level should be in between 70-150 mm to allow ventilation for cooling, also ease of cleaning and maintenance of panels as well as cleaning of terrace.
 - c. The structures should be suitably loaded with reinforced concrete blocks of appropriate weight made out of M25 concrete mixture.
- ii. Tin shed
 - a. The structure design should be as per the slope of the tin shed.
 - b. The inclination angle of structure can be done in two ways-
 - c. Parallel to the tin shed (flat keeping zero-degree tiling angle), if the slope of shed in Proper south direction
 - d. With same tilt angle based on the slope of tin shed to get the maximum output.
 - e. The minimum clearance of the lowest point from the tin shade should be more then 100mm.
 - f. The base of structure should be connected on the Purlin of tin shed with the proper riveting.
 - g. All structure member should be of minimum 2 mm thickness.
- iii. RCC Elevated structure: It can be divided into further three categories:
 - A Minimum clearance from roof (upto 1000 MM) (for reference only)
 - a. The structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. The gap between module should be minimum 30MM.

- b. Base Plate – Base plate thickness of the Structure should be 5MM for this segment.
- c. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40 MM in flange side in Lip section.
- d. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side (y- axis) and 40 MM in flange side (x-axis).
- e. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- f. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- g. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.
- h. For single portrait structure the minimum ground clearance should be 500MM.

B Medium clearance from roof (1000MM – 2000 MM) (for reference only)

- a. Base Plate – Base plate thickness of the Structure should be Minimum 6MM for this segment.
- b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.

- e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

C Maximum clearance from roof (2000MM – 3000 MM) (for reference only)

- a. Base Plate – Base plate thickness of the Structure should be minimum 8 MM for this segment.
- b. Column – Structure Column thickness should be minimum 2.6MM in square hollow section (minimum 50x50) or rectangular hollow section (minimum 60x40) or 3MM in C-Channel section.
- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 3MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

D Super elevated structure (More than 3000 MM clearance from roof) (for reference only)

A. Base structure

- a. Base Plate – Base plate thickness of the Structure should be 10MM for this segment.

- b. Column – Structure Column minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- c. Rafter - Structure Rafter minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- d. Cross bracing – Bracing for the connection of rafter and column should be of minimum thickness of 4mm L-angle with the help of minimum bolt diameter of 10mm.

B. Upper structure of super elevated structure –

- a. Base Plate – Base plate thickness of the Structure should be minimum 5MM for this segment.
- b. Column – Structure Column should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- c. Rafter - Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin - Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing – The section for bracing part should be minimum 2MM thickness.
- f. Connection – The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.

C. If distance between two legs in X-Direction is more than 3M than sag angle/Bar should be provide for purlin to avoid deflection failure. The sag angle should be minimum 2MM thick, and bar should be minimum 12Dia.

D. Degree - The Module alignment and tilt angle shell be calculated to provide the maximum annual energy output. This shall be decided on the location of array installation.

E. Foundation – Foundation should be as per the roof condition; two types of the foundation can be done- either penetrating the roof or without penetrating the roof.

- If penetration on the roof is allowed (based on the client requirement) then minimum 12MM diameter anchor fasteners with minimum length 100MM can be used with proper chipping. The minimum RCC size should be 400x400x300 cubic mm. Material grade of foundation should be minimum M20.
- If penetration on roof is not allowed, then foundation can be done with the help of 'J Bolt' (refer IS 5624 for foundation hardware). Proper Neto bond solution should be used to adhere the Foundation block with the RCC roof. Foundation J - bolt length should be minimum 12MM diameter and length should be minimum 300MM.

F. Material standards:

- Design of foundation for mounting the structure should be as per defined standards which clearly states the Load Bearing Capacity & other relevant parameters for foundation design (As per IS 6403 / 456 / 4091 / 875).
- Grade of raw material to be used for mounting the structures so that it complies the defined wind loading conditions (As per IS 875 - III) should be referred as follows (IS 2062 – for angles and channels, IS 1079 – for sheet, IS 1161 & 1239 for round pipes, IS 4923 for rectangular and square hollow section)
- Test reports for the raw material should be as per IS 1852 / 808 / 2062 / 1079 / 811.
- In process inspection report as per approved drawing & tolerance should be as per IS 7215.
- For ascertaining proper welding of structure part following should be referred:
- D.P. Test (Pin Hole / Crack) (IS 822)
- Weld wire grade should be of grade (ER 70 S - 6)
- For ascertaining hot dip galvanizing of fabricated structure following should be referred:-

- i. Min coating required should be as per IS 4759 & EN 1461.
- j. Testing of galvanized material
 - a) Pierce Test (IS 2633)
 - b) Mass of Zinc (IS 6745)
 - c) Adhesion Test (IS 2629)
 - d) CuSO₄ Test (IS 2633)
 - e) Superior High-Grade Zinc Ingot should be of 99.999% purity (IS 209) (Preferably Hindustan Zinc Limited or Equivalent).
- k. Foundation Hardware – If using foundation bolt in foundation then it should be as per IS 5624.

4. Metering

- 4.1 The specifications net meter/smart meter shall be as per the latest technical specifications issued by the Central Electricity Authority (CEA) and its amendment thereof.
- 4.2 A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following energy meters:
 - a) Net meter/ smart meter: To record import and export units.
 - b) Generation meter (if required as per the state regulations: To keep record for total generation of the plant.
- 4.3 The installation of meters including CTs & PTs, wherever applicable, shall be carried out by the respective DisComs as per the terms, conditions and procedures laid down by the concerned SERCs/DISCOMs.

5. Array Junction Boxes

- 5.1 The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated aluminum /cast aluminum alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JBs shall be such that input & output termination can be made through suitable cable glands. Suitable markings shall be provided on the bus-bars for easy identification and cable ferrules will be fitted at the cable termination points for identification.

5.2 Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP 65 or better standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry, Single /double compression cable glands should be provided.

5.3 Polyamide glands and MC4 Connectors may also be provided. The rating of the junction box shall be suitable with adequate safety factor to interconnect the Solar PV array.

5.4 Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification.

5.5 Junction boxes shall be mounted on the MMS such that they are easily accessible and are protected from direct sunlight and harsh weather.

6. DC Distribution Box (DCDB)

6.1 May not be required for small plants, if suitable arrangement is available in the inverter.

6.2 DC Distribution Box are to be provided to receive the DC output from the PV array field.

6.3 DCDBs shall be dust & vermin proof conform having IP 65 or better protection, as per site conditions.

6.4 The bus bars are made of EC grade copper of required size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the inverter along with necessary surge arrestors. MCB shall be used for currents up to 63 Amperes, and MCCB shall be used for currents greater than 63 Amperes.

7. AC Distribution Box (ACDB)

7.1 AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors, if required. There is interconnection from ACDB to mains at LT Bus bar while in grid tied mode.

7.2 All switches and the circuit breakers, connectors should conform to IEC 60947:2019, part I, II and III/ IS 60947 part I, II and III.

7.3 The isolators, cabling work should be undertaken as part of the project.

7.4 All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air -insulated, cubical type suitable for operation on 1- ϕ /3- ϕ , 415 or 230 volts, 50 Hz (or voltage levels as per CEA/State regulations).

7.5 The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.

7.6 All indoor panels will have protection of IP 54 or better, as per site conditions. All outdoor panels will have protection of IP 65 or better, as per site conditions.

7.7 Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).

7.8 All the 415 or 230 volts (or voltage levels as per CEA/State regulations) AC devices / equipment like bus support insulators, circuit breakers, SPDs, Voltage Transformers (VTs) etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.

- a. Variation in supply voltage: as per CEA/State regulations
- b. Variation in supply frequency: as per CEA/State regulations

7.9 The inverter output shall have the necessary rated AC surge arrestors, if required and MCB/ MCCB. RCCB shall be used for successful operation of the PV system, if inverter does not have required earth fault/residual current protection.

8. Protections

The system should be provided with all necessary protections like earthing, Lightning, and Surge Protection, as described below:

8.1 Earthing Protection

- 8.1.1 The earthing shall be done in accordance with latest Standards.
- 8.1.2 Each array structure of the PV yard, Low Tension (LT) power system, earthing grid for switchyard, all electrical equipment, inverter, all junction boxes, etc. shall be grounded properly as per IS 3043-2018.
- 8.1.3 All metal casing/ shielding of the plant shall be thoroughly grounded in accordance with CEA Safety Regulation 2010. In addition, the lightning arrester/masts should also be earthed inside the array field.
- 8.1.4 Earth resistance should be as low as possible and shall never be higher than 5 ohms.
- 8.1.5 For 10 KW and above systems, separate three earth pits shall be provided for individual three earthing viz.: DC side earthing, AC side earthing and lightning arrestor earthing.

8.2 Lightning Protection

- 8.2.1 The SPV power plants shall be provided with lightning & over voltage protection, if required. The main aim in this protection shall be to reduce the overvoltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. Lightning arrestor shall not be installed on the mounting structure.
- 8.2.2 The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (LAs). Lightning protection should be provided as per NFC17-102:2011/IEC 62305 standard.
- 8.2.3 The protection against induced high-voltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- 8.2.4 The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. According to standard, the minimum requirement for a lightning protection system designed for class of LPS III is a 6 mm² copper/ 16 mm² aluminum or GI strip bearing size 25*3 mm thick). Separate pipe for running earth wires of Lightning Arrestor shall be used.

8.3 Surge Protection

- 8.3.1 Internal surge protection, wherever required, shall be provided. It will consist of three SPD type-II/MOV type surge arrestors connected from +ve and –ve terminals to earth.

9. Cables

- 9.1 All cables should conform to latest edition of IEC/equivalent BIS Standards along with IEC 60227/IS 694, IEC 60502/IS 1554 standards.
- 9.2 Cables should be flexible and should have good resistance to heat, cold, water, oil, abrasion etc.
- 9.3 Armored cable should be used and overall PVC type 'A' pressure extruded insulation or XLPE insulation should be there for UV protection.

9.4 Cables should have Multi Strand, annealed high conductivity copper conductor on DC side and copper/FRLS type Aluminum conductor on AC side. For DC cabling, multi- core cables shall not be used.

9.5 Cables should have operating temperature range of -10°C to +80°C and voltage rating of 660/1000 V.

9.6 Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop less than 2% (DC Cable losses).

9.7 The size of each type of AC cable selected shall be based on minimum voltage drop. However; the maximum drop shall be limited to 2%.

9.8 The electric cables for DC systems for rated voltage of 1500 V shall conform to IS 17293:2020.

9.9 All cable/wires are to be routed in a RPVC pipe/ GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable is easily identified.

9.10 All cable trays including covers to be provided.

9.11 Thermo-plastic clamps to be used to clamp the cables and conduits, at intervals not exceeding 50 cm.

9.12 Size of neutral wire shall be equal to the size of phase wires, in a three phase system.

9.13 The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25 years.

10. Drawings & Manuals:

10.1 Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.

10.2 The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc.

10.3 The Manual should also include all the Dos & Don'ts of Power Plant along with Graphical Representation with indication of proper methodology for cleaning, Operation and Maintenance etc.

10.4 Step by step maintenance and troubleshooting procedures shall also be given in the manuals.

10.5 Vendors should also educate the consumers during their AMC period.

11. Miscellaneous:

- 11.1 **Connectivity:** The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the SERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.
- 11.2 **Safety measures:** Electrical safety of the installation(s) including connectivity with the grid must be taken into account and all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA Safety Regulation 2010 etc. must be followed.
- 11.3 **Shadow analysis:** The shadow analysis report with the instrument such as Solar Pathfinder or professional shadow analysis software of each site should be provided and the consumer should be educated to install the system only in shadow free space. Lower performance of the system due to shadow effect shall be liable for penalty for lower performance.

Quality Certification, Standards and Testing for Grid-Connected Rooftop Solar PV Systems/Power Plants	
Solar PV Modules/Panels	
IEC 61215/ IS 14286	Design Qualification and Type Approval for Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
IS/IEC 61701	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules
IEC 61853- 1 / IS 16170-1	Photovoltaic (PV) module performance testing and energy rating -:Irradiance and temperature performance measurements, and power Rating.
IEC 62716/ IS 16664	Photovoltaic (PV) Modules – Ammonia (NH3) Corrosion Testing (as per the site condition like dairies, toilets etc)
IS 16077 : 2013 / IEC 61646 : 2008	Thin - Film terrestrial photovoltaic (PV) modules - Design qualification and type approval
IS/IEC 61730-1,2	Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, Part 2: Requirements for Testing
IS 17210 (part 1) or IEC TS 62804-1	Photovoltaic (PV) modules – Test method for detection of potential-induced degradation. IEC 62804-1: Part 1: Crystalline Silicon
Solar PV Inverters	
IEC 62109 or IS : 16221	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements, and Safety of power converters for use in photovoltaic power systems Part 2: Particular requirements for inverters. Safety compliance (Protection degree IP 65 or better for outdoor mounting, IP 54 or better for indoor mounting)
IS/IEC 61683 latest (as applicable)	Photovoltaic Systems – Power conditioners: Procedure for Measuring Efficiency (10%, 25%, 50%, 75% & 90-100% Loading Conditions)
IEC 60068-2 /IEC 62093 (as applicable)	Environmental Testing of PV System – Power Conditioners and Inverters

IEC 62116:2014/ IS16169	Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures
Fuses	
IS/IEC 60947 (Part 1, 2 & 3), EN 50521	General safety requirements for connectors, switches, circuit breakers (AC/DC): 1) Low-voltage Switchgear and Control-gear, Part 1: General rules 2) Low-Voltage Switchgear and Control-gear, Part 2: Circuit Breakers 3) Low-voltage switchgear and Control-gear, Part 3: Switches, disconnectors switch-disconnectors and fuse-combination units 4) EN 50521: Connectors for photovoltaic system-Safety requirements and tests
IS/IEC 60269-6	Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems
Solar PV Roof Mounting Structure	
IS 2062/IS 4759/ AA6063 T6	Material for the structure mounting
Surge Arrestors	
BFC 17-102:2011/ NFC 102:2011/ IEC 62305	Lightening Protection Standard
IEC 60364-5-53/ IS 15086-5 (SPD) IEC 61643- 11:2011	Electrical installations of buildings - Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods

Cables	
IEC 60227/IS 694, IEC 60502/IS 1554 (Part 1& 2) / IEC69947 (as applicable)	General test and measuring method for PVC (Polyvinyl chloride) insulated cables (for working voltages up to and including 1100 V, and resistant for outdoor installation)
IS 17293:2020	Electric Cables for Photovoltaic Systems for Rated Voltage 1500 V DC
Earthing /Lightning	
IEC 62561/IEC 60634 Series (Chemical earthing) (as applicable)	IEC 62561-1: Lightning protection system components (LPSC) - Part: Requirements for connection components IEC 62561-2: Lightning protection system components (LPSC) – Part 2: Requirements for conductors and earth electrodes IEC 62561-7: Lightning protection system components (LPSC) - Part 7: Requirements for earthing enhancing compounds
Junction Boxes	
IEC 60529	Junction boxes and solar panel terminal boxes shall be of the thermo-plastic type with IP 65 or better protection for outdoor use, and IP 54 or better protection for indoor use

Annexure 4**Model Net Metering Agreement**

This Agreement is made and entered into at (location) on this (date) day of (month) (year) between the Eligible Consumer (Name) having premises at (address) and Consumer No. as the first Party,

AND

The Distribution Licensee (hereinafter referred to as 'the Licensee') and having its Registered Office at (address) as second Party of this Agreement.

Whereas, the Eligible Consumer has applied to the Licensee for approval of a Net Metering Arrangement under the provisions of the (State Guidelines reference name) and subsequent amendments and sought its connectivity to the Licensee's Distribution Network.

And whereas, the Licensee has agreed to provide Network connectivity to the Eligible Consumer for injection of electricity generated from its Roof-top Renewable Energy Generating System of kilowatt (kW)

Both Parties hereby agree as follows:-

1. Eligibility:

The Roof-top Renewable Energy Generating System meets the applicable norms for being integrated into the Distribution Network, and that the Eligible Consumer shall maintain the System accordingly for the duration of this Agreement.

2. Technical and Inter-connection Requirements:

- 2.1. The metering arrangement and the inter-connection of the Roof-top Renewable Energy Generating System with the Network of the Licensee shall be as per the provisions of the Net Metering Regulations and the technical standards and norms specified by the Central Electricity Authority for connectivity of distributed generation resources and for the installation and operation of meters.
- 2.2. The Eligible Consumer agrees that he shall install, prior to connection of the Roof-top Renewable Energy Generating System to the Network of the Licensee, an isolation device (both automatic and in built within inverter and external manual relays); and the Licensee shall have access to it if required for the repair and maintenance of the Distribution Network.
- 2.3. The Licensee shall specify the interface/inter-connection point and metering point.
- 2.4. The Eligible Consumer shall furnish all relevant data, such as voltage, frequency, circuit breaker, isolator position in his System, as and when required by the Licensee.
- 2.5. All the equipment connected to Network of the Licensee at the time of installation shall be compliant with the Technical Specifications for rooftop system as Published by MNRE.

3. Safety:

- 3.1. The consumer shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Reguiations 2010

- 3.2. The equipment connected to the Licensee's Distribution System shall be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS), as the case may be, and the installation of electrical equipment shall comply with the requirements specified by the Central Electricity Authority regarding safety and electricity supply.
- 3.3. The design, installation, maintenance and operation of the Roof-top Renewable Energy Generating System shall be undertaken in a manner conducive to the safety of the Roof-top Renewable Energy Generating System as well as the Licensee's Network.
- 3.4. If, at any time, the Licensee determines that the Eligible Consumer's Roof-top Renewable Energy Generating System is causing or may cause damage to and/or results in the Licensee's other consumers or its assets, the Eligible Consumer shall disconnect the Roof-top Renewable Energy Generating System from the distribution Network upon direction from the Licensee and shall undertake corrective measures at his own expense prior to re-connection.
- 3.5. The Licensee shall not be responsible for any accident resulting in injury to human beings or animals or damage to property that may occur due to back- feeding from the Roof-top Renewable Energy Generating System when the grid supply is off. The Licensee may disconnect the installation at any time in the event of such exigencies to prevent such accident.

4. Other Clearances and Approvals:

The Eligible Consumer shall obtain any statutory approvals and clearances that may be required, such as from the Electrical Inspector or the municipal or other authorities, before connecting the Roof-top Renewable Energy Generating System to the distribution Network.

5. Period of Agreement, and Termination:

This Agreement shall be for a period for 25 years, but may be terminated prematurely.

- (a) By mutual consent; or
- (b) By the Eligible Consumer, by giving 30 days' notice to the Licensee.
- (c) By the Licensee, by giving 30 days' notice, if the Eligible Consumer breaches any terms of this Agreement or the provisions of the Net Metering Regulations and does not remedy such breach within 30 days, or such other reasonable period as may be provided, of receiving notice of such breach, or for any other valid reason communicated by the Licensee in writing.

6. Access and Disconnection:

- 6.1. The Eligible Consumer shall provide access to the Licensee to the metering equipment and disconnecting devices of Roof-top Renewable Energy Generating System, both automatic and manual, by the Eligible Consumer.
- 6.2. If, in an emergent or outage situation, the Licensee cannot access the disconnecting devices of the Roof-top Renewable Energy Generating System, both automatic and manual, it may disconnect power supply to the premises.
- 6.3. Upon termination of this Agreement under Clause 5, the Eligible Consumer shall disconnect the Roof-top Renewable Energy Generating System forthwith from the Network of the Licensee.

7. Liabilities:

- 7.1. The Parties shall indemnify each other for damages or adverse effects of either Party's negligence or misconduct during the installation of the Roof-top Renewable Energy Generating System, connectivity with the distribution Network and operation of the System.

7.2. The Parties shall not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or goodwill, or for indirect, consequential, incidental or special damages including, but not limited to, punitive or exemplary damages, whether any of these liabilities, losses or damages arise in contract, or otherwise.

8. Commercial Settlement:

8.1. The commercial settlements under this Agreement shall be in accordance with the Net Metering Regulations.

8.2. The Licensee shall not be liable to compensate the Eligible Consumer if his Rooftop Renewable Energy Generating System is unable to inject surplus power generated into the Licensee's Network on account of failure of power supply in the grid/Network.

8.3. The existing metering System, if not in accordance with the Net Metering Regulations, shall be replaced by a bi-directional meter (whole current/CT operated) or a pair of meters (as per the definition of 'Net Meter' in the Regulations), and a separate generation meter may be provided to measure Solar power generation. The bi-directional meter (whole current/CT operated) or pair of meters shall be installed at the inter-connection point to the Licensee's Network for recording export and import of energy.

8.4. The uni-directional and bi-directional or pair of meters shall be fixed in separate meter boxes in the same proximity.

9. Connection Costs:

The Eligible Consumer shall bear all costs related to the setting up of the Roof-top Renewable Energy Generating System and the cost of Net Meters.

10. Dispute Resolution:

- 10.1. Any dispute arising under this Agreement shall be resolved promptly, in good faith and in an equitable manner by both the Parties.
- 10.2. The Eligible Consumer shall have recourse to the concerned Consumer Grievance Redressal Forum constituted under the relevant Regulations in respect of any grievance regarding billing which has not been redressed by the Licensee.

In the witness where of (name) for and on behalf of Eligible Consumer and
Shri. (name) for and on behalf of Licensee agree to this agreement.

Signed by

.....
(First Party)

.....
(Second Party)

Witnesses:

1) Signature with Name and Address:
Address

2) Signature with Name and

Annexure 5

Draft Memorandum of Understanding (MoU) Between: The Ministry of New and Renewable Energy (MNRE), Government of India and _____ (Name of the State/UT)

Preamble:

This Memorandum of Understanding (MoU) is entered into on this [DD/MM/YYYY], between the Ministry of New and Renewable Energy (MNRE), Government of India, and the State/UT Government of _____

Recitals:

WHEREAS, MNRE is entrusted with the responsibility of promoting and developing renewable energy sources, including solar energy, in India.

AND WHEREAS, MNRE is implementing PM - Surya Ghar: Muft Bijli Yojana (hereinafter referred to as "The Scheme").

AND WHEREAS, REC Limited has been designated as the overall National Programme Implementing Agency (NPIA) for the PM - Surya Ghar: Muft Bijli Yojana.

AND WHEREAS, the Government of (State/UT name) and their agencies/departments, especially electricity distribution companies (Discoms) & State Nodal Agency (SNA) for renewable energy, have a crucial role in the successful implementation of the PM - Surya Ghar: Muft Bijli Yojana at ground level.

AND WHEREAS, both MNRE and the Government of (State/UT name) recognize the need to collaborate to accelerate the deployment of grid-connected rooftop solar under this scheme.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, both parties agree as follows:

Objectives:

To promote the installation of grid-connected rooftop solar systems in the residential sector within the geographical jurisdiction of State, and to that conduct public awareness, outreach activities, and capacity-building initiatives to promote their adoption;

To set ambitious rooftop solar targets for the Government, commercial, and industrial (C&I), as well as residential sectors and establish robust high-level monitoring mechanisms for overseeing the progress of the implementation of this scheme.

To strengthen Discoms for rooftop solar implementation by identifying dedicated manpower for this programme, undertake efforts to enhance the rooftop solar vendor base in respective states/UTs and create a positive regulatory environment for grid-connected rooftop solar power into the electricity grid, ensuring the efficient and sustainable use of solar energy

Responsibilities of MNRE:

Policy & Regulations Support: MNRE will provide guidance/inputs/recommendations to update existing policy and regulations to DISCOM/SNA/Designated State Department/Agency

Technical Assistance: MNRE will collaborate with DISCOM/SNA/designated state department for technical standards and guidelines assistance for grid-connected rooftop solar installations.

Financial Support: MNRE shall provide financial support in line with the guidelines of the PM-Surya Ghar: Muft Bijli Yojana.

National Portal: MNRE shall be responsible for the Development and management of the National Portal.

Responsibilities of State / UT Government

The State Government agrees to implement the Scheme and to that end shall ensure

- 1) **Adherence to Scheme Guidelines:** The State/UT Government shall ensure adherence to the scheme guidelines in their entirety including the use of the scheme name

- 2) **Regulations:** The State/UT Government shall ensure that the processes, State/UT level Standard Operating Procedures and regulatory provisions are at least in alignment with the provisions of Electricity (Right of Consumers) Rule 2020 and its amendments thereof and in alignment with the guidelines of the Scheme.
- 3) **Service Time Lines:** The State/UT government shall ensure that time-bound services are provided to consumers for RTS for critical services such as technical feasibility, inspection, commissioning, net meter supply and signing of Net Metering agreements.
- 4) **IEC Activities:** The State/UT Government shall undertake public awareness campaigns as per the IEC plan of the Scheme and shall ensure adherence to Scheme IEC guidelines.
- 5) **Additional Subsidy:** The State/UT Government may provide additional subsidy on top of the Central financial assistance, however this will be subject to adherence to all scheme guidelines and routing of additional subsidy through the National Portal. Any alteration to the Scheme framework must be duly approved by the MNRE.
- 6) **Coordination:** The State/UT shall coordinate with National Programme Implementations Agency for the successful implementation of the PM Surya Ghar: Muft Bijli Yojana.
- 7) **Monitoring of the Scheme:** The State Level Steering Committee headed by the Chief Secretary of the State/UT and District Level Committees shall regularly review the progress of implementation of the scheme.
- 8) **IT Integration:** The State/UT Government shall coordinate in the integration of the State Portal API with the National Portal for sharing of relevant data relating to rooftop solar installations.
- 9) **Vendor Registration:** The State/UT DISCOM shall may register the vendors operating within their respective State. The vendor is here by permitted to get registered to any DISCOM of the State/UT, in case of multiple DISCOMs operating in that State/UT and that no DISCOM shall refuse to cater their request for registration.

- 10) **Declaration of Target:** The State/UT Governments may declare short medium and long term targets for rooftop solar systems across all sectors.
- 11) **Formation of RTS cell:** The State/UT Government shall create a dedicated RTS cell for the purpose of monitoring and coordination with the NPIA and Ministry.

Cooperation:

MNRE and States will collaborate on projects, research, and initiatives aimed at improving the distribution sector and accelerating the deployment of grid-connected rooftop solar systems.

Both parties will engage in regular meetings, discussions, and information sharing to ensure the effective implementation of this MoU.

Funding:

Funding for grid-connected rooftop solar projects and initiatives under this MoU will be determined through separate agreements or funding mechanisms as mutually agreed upon by MNRE and State.

Duration:

This MoU shall come into effect on the date of signing and shall remain in force for a period of [Specify Term], unless terminated by mutual consent.

Amendment:

Any amendment or modification to this MoU shall be made in writing and will require the consent of both parties.

Annexure - D

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सुदीप जैन, भा.प्र.से.
SUDEEP JAIN, IAS



अपर सचिव
भारत सरकार
नवीन और नवीकरणीय ऊर्जा मंत्रालय

ADDITIONAL SECRETARY
GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY

Date: 30/12/2024

Subject: Incentives Under PM Surya Ghar Muft Bijli Yojana

Dear Mr. Tejas Parmar,

As you are aware, Government of India launched PM-Surya Ghar: Muft Bijli Yojana (PMSG: MBY) on 13th February 2024, with an aim to increase the share of rooftop solar (RTS) capacity and empower residential households to generate their own electricity. With an outlay of Rs 75,021 crore, the scheme targeting one crore households will be implemented until FY 2026-27.

2. The role of DISCOMs is conceived for successful implementation of this scheme. To incentivize and financially support DISCOMs, a budget of Rs. 4950 crores have been allocated under the "Incentives to DISCOMs" component of PMSG: MBY to facilitate the installation of RTS systems within DISCOM distribution areas.

3. In this connection, I am pleased to inform you that under the PM Surya Ghar Muft Bijli Yojana (PMSGMBY), **Madhya Gujarat Vij Company Limited (MGVCL)** is eligible for the following incentives:

- ₹ 433,590,110 for the financial year 2023-24

These incentives will be released shortly

4. Your significant efforts in promoting rooftop solar adoption under PMSG:MBY are commendable. To further enhance the scheme's effectiveness and encourage consumer participation, I request your esteemed DISCOM to:

- i. Simplify Net-Metering Processes by completely eliminating requirement for Net-Metering Agreement since there is no commitment that is required from the consumer and DISCOM has to abide by the net-metering regulation issued by the SERC.
- ii. Waive Additional Fees: Abolish application, facilitation, and connection charges, as the incentives provided under the scheme exceed your costs for inspecting/connecting rooftop solar.
- iii. Establish Dedicated RTS Teams: Create RTS wings at Headquarters and appoint dedicated officers at Division and Circle levels for effective implementation of PMSG:MBY.
- iv. Enhance Net-Meter Availability: Maintain adequate stocks of net meters or allow bulk submissions by vendors for testing and deployment.
- v. Publicize and Mobilize Applications: Assign specific targets to Circles, Divisions, and Sub-Divisions for consumer mobilization and awareness programs.
- vi. Train Field Engineers: Train all field engineers on PMSG:MBY through NPTI by 31 Jan 2025.
- vii. Implement Rewards Systems: Introduce performance based incentives for staff involved in RTS deployment, as outlined in the operational guidelines.

5. We look forward to your acknowledgment of this letter, a timeline for implementing these measures, and any additional suggestions for promoting rooftop solar adoption under PMSG:MBY.

Thank you for your continued commitment to the renewable energy transition.

With Regards

Yours Sincerely

Sudeep Jain

[Sudeep Jain]

To
The Managing Director
MADHYA GUJARAT VIJ COMPANY LIMITED

CC: ACS/Principal Secretary Energy, GUJARAT

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

PETITION NO. ____ OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003
READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY
REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID
INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE
PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO
AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING
ROOF TOP SOLAR PV PLANTS UNDER PM-SURYA GHAR MUFT BIJLI YOJANA.

IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (NG)
Email: corporate@ugvcl.com
Ph No.: (02762) 236561
2. Madhya Gujarat Vij Company Limited
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007
3. Paschim Gujarat Vij Company Limited
Through its Managing Director
Paschim Gujarat VijSevaSadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 3600004
4. Dakshin Gujarat Vij Company Limited
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006



... Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. Torrent Power Limited-Distribution(Surat) [TPL-D(5)]
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.





3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)]
Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130
4. Torrent Power Limited - Distribution (Dholera)
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL)
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA)
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.
7. GIFT Power Company Limited
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR)
Torrent Power Ltd
'Samanvay'600-Tapovan, Ambawadi,
Ahmedabad-380015





182

DECLARATION

Declaration that the subject matter of present Petition has not been raised by the Petitioner before any other competent forum and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.

DATE: 07.03.2025

PLACE: Rajkot

A handwritten signature in black ink, appearing to read "Rakesh" or a similar name.

CO-PETITIONER





SERIAL NO. 413/2025
BOOK NO. 01/2025
PAGE NO. 103/2025
DATE: 27/3/25

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION,
GANDHINAGAR

183

PETITION NO. ____ OF 2025

AND IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
2. Madhya Gujarat Vij Company Limited
3. Paschim Gujarat Vij Company Limited
4. Dakshin Gujarat Vij Company Limited

Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) & Anrs.

AFFIDAVIT

I, Rajendrakumar S/o. Jivanlal Vala, aged about 50 years, resident of Rajkot hereby solemnly affirms and state as under:

1. I am the Chief Engineer (Project and R & C) of the Co-Petitioner and I am fully conversant with the facts of the case and able to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Petition and I say that the facts stated therein are based on the records of the Petitioner and believed by the deponent to be true.
3. The Annexures to the Petition are true copies of their originals.

DEPONENT

VERIFICATION:

I, the deponent above named do hereby verify that the contents of my above Affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

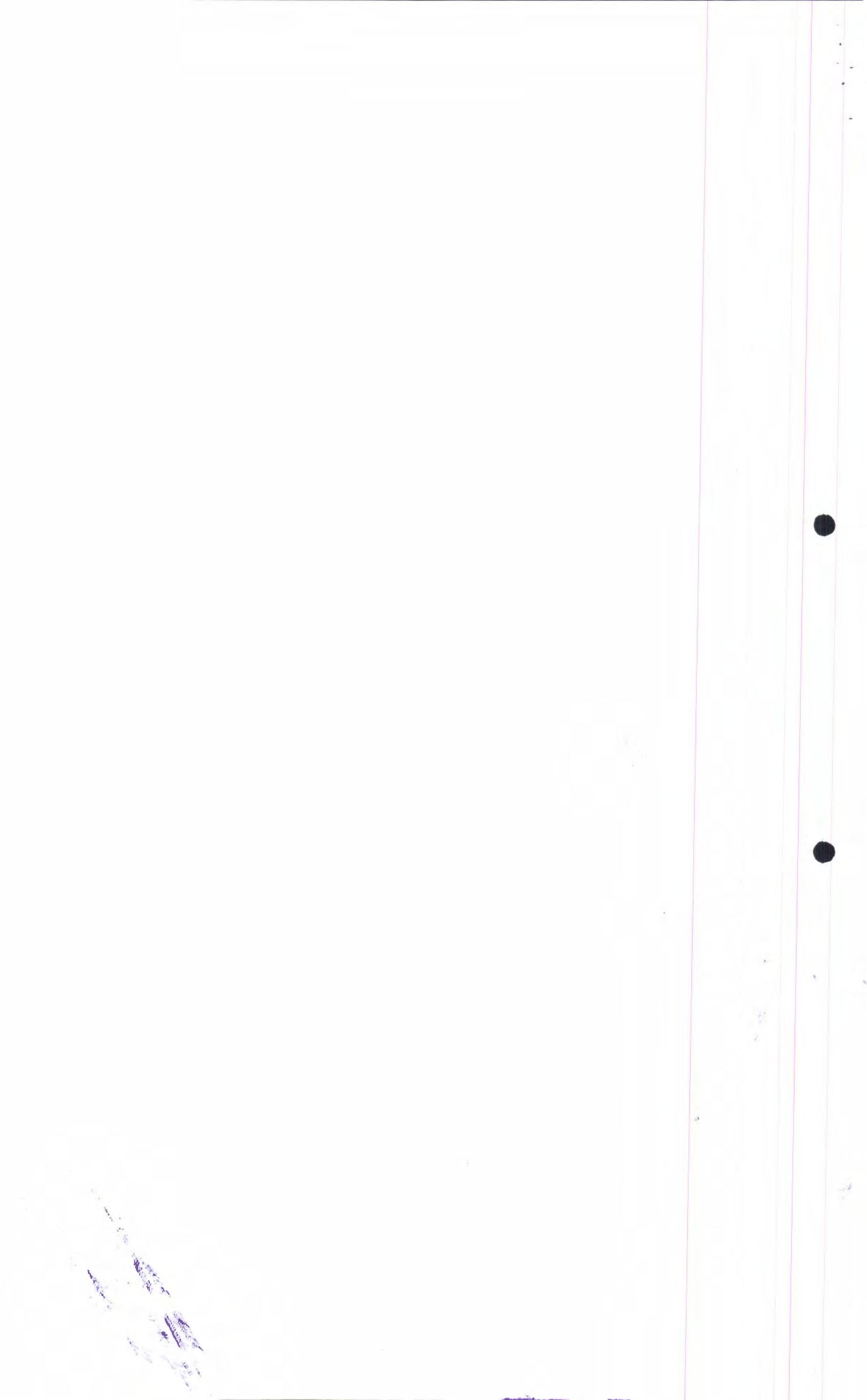
Verified at Rajkot on this 27th day of March-2025.

DEPONENT

SOLEMNLY AFFIRMED BEFORE ME
by Rajendrakumar J. Vala
Who is Identified by Smt Advocate
whom I know personally.
On this 27 date of Mar. 2025

S. G. Rathod
SHEETAL G. RATHOD
NOTARY- GOVT. OF INDIA
RAJKOT-GUJARAT





BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

184

PETITION NO. ____ OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003 READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING ROOF TOP SOLAR PV PLANTS UNDER PM-SURYA GHAR MUFT BIJLI YOJANA.

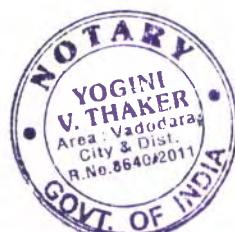
IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (NG)
Email: corporate@ugvcl.com
Ph No.: (02762)236561
2. Madhya Gujarat Vij Company Limited
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007
3. Paschim Gujarat Vij Company Limited
Through its Managing Director
Paschim Gujarat VijSevaSadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 3600004
4. Dakshin Gujarat Vij Company Limited
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006

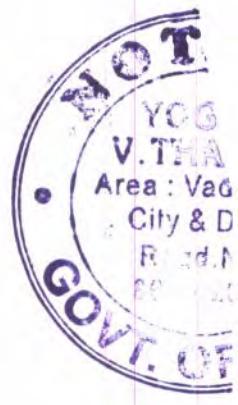
... Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. TorrentPowerLimited-Distribution(Surat) [TPL-D(5)]
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.



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3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)]
 Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
 Tal.: Vagra, Dist.: Bharuch - 392 130

4. Torrent Power Limited - Distribution (Dholera)
 Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
 Ahmedabad - 380015.

5. AspenPark Infra Vadodara Private Limited (AIVPL)
 The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,

3. Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.

6. The Chairman, Deendayal Port Authority (DPA)
 (erstwhile Deendayal Port Trust / Kandla Port Trust)
 Deendayal Port Trust,
 06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.

7. GIFT Power Company Limited
 EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
 Gandhinagar - 382 050.

8. Jubilant Infrastructure Ltd.
 Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.

9. MPEZ Utilities Ltd.,
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 Navinal Island, Near Dhrub, Mundra, Kutch - 370 421

10. Torrent Power Ltd (MBSIR)
 Torrent Power Ltd
 'Samanvay'600-Tapovan,Ambawadi,
 Ahmedabad-380015

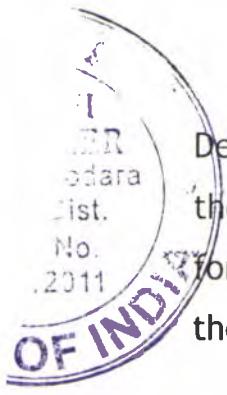
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DECLARATION



Declaration that the subject matter of present Petition has not been raised by the Petitioner before any other competent forum and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.

DATE: 27.03.2025

PLACE: Vadodara


PETITIONER
Chief Engineer (Project)
MGVCL, Vadodara





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BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION,
GANDHINAGAR

PETITION NO. ____ OF 2025

AND IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
2. Madhya Gujarat Vij Company Limited
3. Paschim Gujarat Vij Company Limited
4. Dakshin Gujarat Vij Company Limited

- Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) & Anrs.

AFFIDAVIT

Regd. No. 300
Date 27/3/2025

I, Rajeshkumar Nagariya S/o Govindbhai Nagariya, aged about 55 years, residing at A/16, Akshar bhuvan, Gangotri duplex, yash complex, Gotri Raod Near T B senetorium, Vadodara-390021 do solemnly affirms and state as under:

1. I am the Chief Engineer (Project) of the Co-Petitioner and I am fully conversant with the facts of the case and able to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Petition and I say that the facts stated therein are based on the records of the Petitioner and believed by the deponent to be true.
3. The Annexures to the Petition are true copies of their originals.


DEPONENT

Chief Engineer (Project)
MGVCL, Vadodara

VERIFICATION:

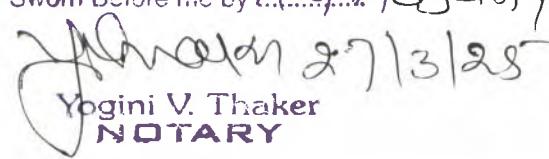


I, the deponent above named do hereby verify that the contents of my above Affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Vadodara on this 27th day of March-2025


DEPONENT
Chief Engineer (Project)
MGVCL, Vadodara

Solemnly Affirmed/Declared
Sworn Before me by R.G. Nagariya


Yogini V. Thaker
NOTARY

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY COMMISSION
AT GANDHINAGAR

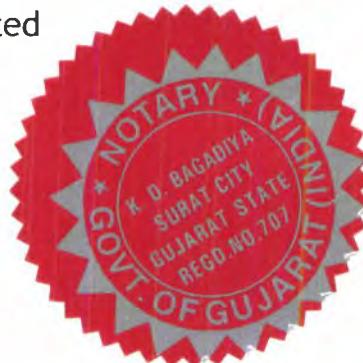
PETITION NO. ____ OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003 READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING ROOF TOP SOLAR PV PLANTS UNDER PM-SURYA GHAR MUFT BIJLI YOJANA.

IN THE MATTER OF:

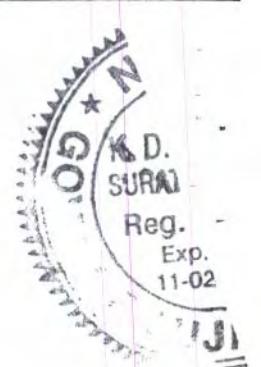
1. Uttar Gujarat Vij Company Limited
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (NG)
Email: corporate@ugvcl.com
Ph No.: (02762)236561
2. Madhya Gujarat Vij Company Limited
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007
3. Paschim Gujarat Vij Company Limited
Through its Managing Director
Paschim Gujarat VijSevaSadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 3600004
4. Dakshin Gujarat Vij Company Limited
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006



... Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. TorrentPowerLimited-Distribution(Surat) [TPL-D(5)]
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.
3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)]



1/1



2
189

Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130

4. Torrent Power Limited - Distribution (Dholera)
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL)
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA)
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.
7. GIFT Power Company Limited
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist. - Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR)
Torrent Power Ltd
'Samanvay'600-Tapovan,Ambawadi,
Ahmedabad-380015



DECLARATION

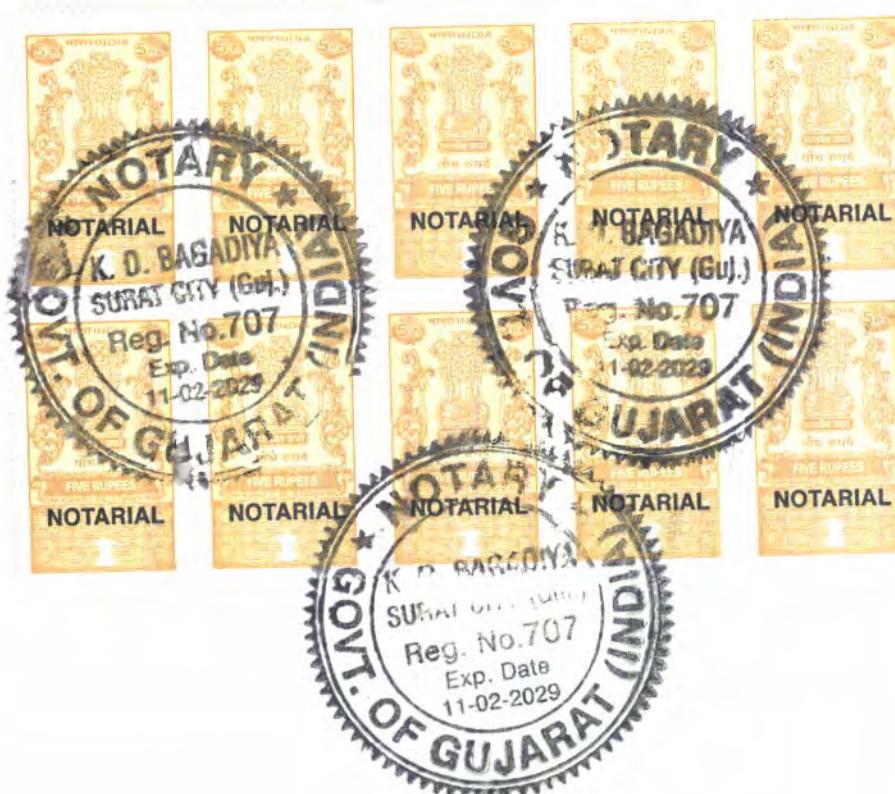
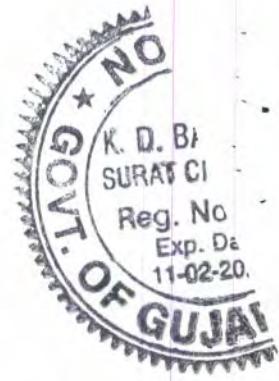


Declaration that the subject matter of present Petition has not been raised by the Petitioner before any other competent forum and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.

DATE:

PLACE: Surat

PETITIONER





4
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BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION,
GANDHINAGAR

PETITION NO. _____ OF 2025

AND IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited
2. Madhya Gujarat Vij Company Limited
3. Paschim Gujarat Vij Company Limited
4. Dakshin Gujarat Vij Company Limited

Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad)&Anrs.

AFFIDAVIT

I, Bipinchandera S/o Kuvarji Patel, aged about 54 years, resident of Surat hereby solemnly affirms and state as under:

1. I am the Add.Chief Engineer (C & R) of the Co-Petitioner and I am fully conversant with the facts of the case and able to depose to the present Affidavit.
2. I have gone through the contents of the accompanying Petition and I say that the facts stated therein are based on the records of the Petitioner and believed by the deponent to be true.
3. The Annexures to the Petition are true copies of their originals.

32
DEONENT

VERIFICATION:

I, the deponent above named do hereby verify that the contents of my above Affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Surat on this _____ day of March-2025

Reg. Sr.No. 1243 DEONENT
22 MAR 2025
My Commission Expires on 11-02-2029

Solemnly affirmed

BEFORE ME

K. D. Bagadiya

K. D. BAGADIYA

NOTARY

GOVT. OF GUJARAT

SURAT CITY (Guj.)



Uttar Gujarat Vij Company Limited

CIN - U40102GJ2003SGC042906

(A subsidiary of Gujarat Urja Vikas Nigam Limited)

No. UGVCL/R&C/Com/GERC Cell/297

Date - 30/04/2025

To

The Secretary,
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT ONE,
Road 5C, Zone 5, GIFT CITY,
Gandhinagar, Gujarat - 382050

Sub: - Submission of proof of service in Petition no.2475/2025.

Ref. :- Hon'ble GERC letter no. GERC/Legal/2025/507 dated 04.04.2025.

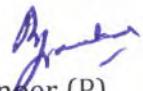
Respected Sir,

UGVCL has filed petition in the matter for seeking amendment of the Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 (hereinafter "Net Metering Regulations 2016"). The amendment sought to relax the requirement of the agreement to be entered into by the consumers in respect of residential consumers installing Rooftop Solar PV Plants under PM Surya Ghar Muft Bijli Yojana and same has been registered and numbered 2475/2025.

Hon'ble GERC has directed vide letter under reference for proof of service. In this regards, hard copy as well as soft copy were provided to all respondents already and proof of service is enclosed herewith.

This is for kind information and consideration please.

Thanking you,


Chief Engineer (P)
UGVCL, Mehsana

Encl.- As above

Copy to (By RPAD):-

1. Madhya Gujarat Vij Company Limited

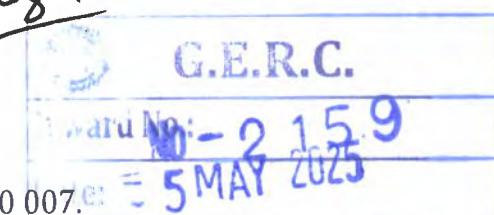
Sardar Patel Vidyut Bhavan, Racecourse, Vadodara - 390 007.

2. Paschim Gujarat Vij Company Limited

Paschim Gujarat Vij Seva Sadan, Off. Nana Mava Main Road, Laxminagar Rajkot - 3600004.

3. Dakshin Gujarat Vij Company Limited

Kaporda Char Rasta, Nana Varcha Road, Surat - 395006.





//2//

4. Torrent Power Limited - Distribution (Ahmedabad)

Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.

5. Torrent Power Limited - Distribution (Surat)

Torrent Power Limited, Torrent House, Station Road, Surat - 395 003.

6. Torrent Power Limited - Distribution (Dahej)

Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130.

7. Torrent Power Limited - Distribution (Dholera)

Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.

8. AspenPark Infra Vadodara Private Limited (AIVPL)

Survey No. 26, Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.

9. Deendayal Port Authority (DPA)

(Erstwhile Deendayal Port Trust / Kandla Port Trust) Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.

10. GIFT Power Company Limited

EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
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11. Jubilant Infrastructure Ltd.

Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.

12. MPEZ Utilities Ltd.

2nd Floor, Adani House, Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421.

13. Torrent Power Ltd (MBSIR)

Torrent Power Ltd 'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.

BEFORE THE GUJARAT ELECTRICITY REGULATORY COMMISSION AT
GANDHINAGAR
PETITION NO. 2475 OF 2025

IN THE MATTER OF:

Uttar Gujarat Vij Company Limited and others

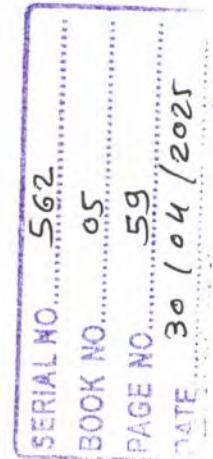
Petitioner

Versus

Torrent Power Limited - Distribution (Ahmedabad)
And others

Respondents

AFFIDAVIT OF SERVICE



I, Ishwarbhai Katara son of Galjibhai Katara aged about 49 years, resident of Gandhinagar, do hereby solemnly affirm and state as under:

1. I say that I am the Superintending Engineer (Solar) in the petitioner, Uttar Gujarat Vij Company Limited and I am competent to swear the present affidavit.
2. I say that a copy of the Petition has been served on the Respondents No. 1 to 10 by registered post. The copies of the postal receipt of registered post service (Respondents No. 1 to 10) is attached herewith and marked as Annexure 'A'.
3. I say that a copy of the Petition has also been emailed to the Respondents Nos. 1 to 10. The copies of the email sent to the Respondents Nos. 1 to 10 is attached hereto and marked as Annexure 'B' (Colly).
4. I say that the above may be considered as service to the Respondents

Solely Affirmed & Signed
BEFORE ME

DEPONENT



Annexure-A

193

Track Consignment

Quick help

Indicates a required field.

TPL-Ahmedabad

Consignment Number			CG138922174IN			Track More	
Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On	
MaheSana HO	08/04/2025 15:34:05	380009	46.00	Registered Parcel	Manekbag SO	15/04/2025 17:03:05	
Event Details For : CG138922174IN							
Date	Time	Office	Event	Current Status : Item Delivered(Addressee)			
15/04/2025	17:03:05	NDC Ellisbridge	Item Delivered(Addressee)				
15/04/2025	09:06:23	NDC Ellisbridge	Out for Delivery				
15/04/2025	07:37:55	NDC Ellisbridge	Item Received				
12/04/2025	14:40:32	Ahmedabad PH	Item Dispatched				
12/04/2025	12:42:52	Ahmedabad PH	Item Bagged				
12/04/2025	09:19:43	Ahmedabad PH	Item Received				
11/04/2025	16:52:12	NDC Gandhinagar	Item Dispatched				
11/04/2025	16:45:59	NDC Gandhinagar	Item Bagged				
11/04/2025	15:10:23	NDC Gandhinagar	Item Redirected to Navrangpura HO Insufficient Address				
11/04/2025	10:41:05	NDC Gandhinagar	Item Received				
09/04/2025	13:55:13	Ahmedabad PH	Item Dispatched				
04/04/2025	09:31:52	Ahmedabad PH	Item Bagged				
09/04/2025	08:34:46	Ahmedabad PH	Item Received				
09/04/2025	00:05:57	MAHESANA RMS TMO	Item Dispatched				
08/04/2025	23:18:45	MAHESANA RMS TMO	Item Received				
08/04/2025	23:07:48	Mehasana PH	Item Dispatched				
08/04/2025	20:00:06	Mehasana PH	Item Bagged				
08/04/2025	19:41:32	Mehasana PH	Item Received				
08/04/2025	18:18:59	MAHESANA RMS TMO	Item Dispatched				
08/04/2025	18:17:55	MAHESANA RMS TMO	Item Received				
08/04/2025	17:09:42	Mahesana HO	Item Dispatched				
08/04/2025	17:03:40	Mahesana HO	Item Bagged				
08/04/2025	15:34:05	Mahesana HO	Item Booked				

Track Consignment
Quick help

Indicates a required field.

194

TPL-Surat

Consignment Number

CG138922109IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	395003	46.00	Registered Parcel	Surat HO	15/04/2025 18:37:56
Event Details For : CG138922109IN						
Date	Time	Office		Event		
15/04/2025	18:37:56	Surat HO		Item Delivered(Addressee)		
15/04/2025	12:36:07	Surat HO		Out for Delivery		
12/04/2025	17:07:27	Surat HO		Item Onhold Door Locked-Intimation Served		
12/04/2025	11:38:02	Surat HO		Out for Delivery		
12/04/2025	08:52:15	Surat HO		Item Received		
11/04/2025	11:40:00	Surat PH		Item Bagged		
09/04/2025	00:05:57	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	23:18:45	MAHESANA RMS TMO		Item Received		
08/04/2025	23:07:48	Mehasana PH		Item Dispatched		
08/04/2025	20:44:08	Mehasana PH		Item Bagged		
08/04/2025	19:41:32	Mehasana PH		Item Received		
08/04/2025	18:18:59	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	18:17:55	MAHESANA RMS TMO		Item Received		
08/04/2025	17:08:42	Mahesana HO		Item Dispatched		
08/04/2025	17:03:40	Mahesana HO		Item Bagged		
08/04/2025	15:34:05	Mahesana HO		Item Booked		

Current Status : Item Delivered(Addressee)

Event

Item Delivered(Addressee)

Out for Delivery

Item Onhold Door Locked-Intimation Served

Out for Delivery

Item Received

Item Bagged

Item Dispatched

Item Received

Item Dispatched

Item Bagged

Item Received

Item Dispatched

Item Received

Track Consignment

Quick help

Indicates a required field.

195

TPL-Dahej

Consignment Number

CG138922090IN

[Track More](#)

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Maheansa HO	08/04/2025 15:34:05	392130	46.00	Registered Parcel	Dahej SO	11/04/2025 14:08:46
Event Details For : CG138922090IN						
Date	Time	Office		Event		
11/04/2025	14:08:46	Dahej SO		Item Delivered(Addressee)		
11/04/2025	10:23:28	Dahej SO		Out for Delivery		
11/04/2025	08:21:34	Dahej SO		Item Received		
11/04/2025	02:45:49	Bharuch RMS TMO		Item Dispatched		
10/04/2025	18:59:36	Bharuch RMS TMO		Item Received		
10/04/2025	18:36:22	Bharuch PH		Item Dispatched		
10/04/2025	17:29:53	Bharuch PH		Item Bagged		
10/04/2025	14:50:55	Bharuch PH		Item Received		
10/04/2025	03:55:34	Bharuch RMS TMO		Item Dispatched		
10/04/2025	03:50:49	Bharuch RMS TMO		Item Received		
09/04/2025	00:05:57	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	23:18:45	MAHESANA RMS TMO		Item Received		
08/04/2025	23:07:48	Meahesana PH		Item Dispatched		
08/04/2025	22:26:04	Meahesana PH		Item Bagged		
08/04/2025	19:41:32	Meahesana PH		Item Received		
08/04/2025	18:18:59	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	18:17:55	MAHESANA RMS TMO		Item Received		
08/04/2025	17:09:42	Meahesana HO		Item Dispatched		
08/04/2025	17:03:40	Meahesana HO		Item Bagged		
08/04/2025	15:34:05	Meahesana HO		Item Booked		

Current Status : Item Delivered(Addressee)

Track Consignment

Quick help ?

Indicates a required field.

196

TPL-Dholera

Consignment Number

CG138922112IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	380015	46.00	Registered Parcel	Manekbag SO	11/04/2025 17:25:22
Event Details For : CG138922112IN						
Date	Time	Office		Current Status : Item Delivered(Addressee)	Event	
11/04/2025	17:25:22	NDC Ellisbridge			Item Delivered(Addressee)	
11/04/2025	09:03:29	NDC Ellisbridge			Out for Delivery	
11/04/2025	07:27:56	NDC Ellisbridge			Item Received	
09/04/2025	13:55:13	Ahmedabad PH			Item Dispatched	
09/04/2025	09:44:13	Ahmedabad PH			Item Bagged	
09/04/2025	08:34:46	Ahmedabad PH			Item Received	
09/04/2025	00:05:57	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	23:18:45	MAHESANA RMS TMO			Item Received	
08/04/2025	23:07:48	Mehasana PH			Item Dispatched	
08/04/2025	20:00:06	Mehasana PH			Item Bagged	
08/04/2025	19:41:32	Mehasana PH			Item Received	
08/04/2025	18:18:59	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	18:17:55	MAHESANA RMS TMO			Item Received	
08/04/2025	17:09:42	Mahesana HO			Item Dispatched	
08/04/2025	17:03:40	Mahesana HO			Item Bagged	
08/04/2025	15:34:05	Mahesana HO			Item Booked	

Indicates a required field.

197

Aspenpark Infra Vadodara Pvt Ltd

Consignment Number		CG138922165IN		Track More		
Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	391760	46.00	Registered Parcel	Vaghodia SO	11/04/2025 17:18:45
Event Details For : CG138922165IN						
Date	Time	Office			Event	
11/04/2025	17:18:45	Pipalia BO			Item Delivered(Addressee)	
11/04/2025	12:42:25	Vaghodia SO			Dispatched to BO	
11/04/2025	10:19:47	Vaghodia SO			Item Received	
11/04/2025	04:22:31	Vadodara RMS TMO			Item Dispatched	
10/04/2025	20:10:51	Vadodara RMS TMO			Item Received	
10/04/2025	14:11:49	Vadodara PH			Item Dispatched	
10/04/2025	13:21:48	Vadodara PH			Item Bagged	
10/04/2025	08:30:22	Vadodara PH			Item Received	
08/04/2025	00:05:57	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	23:18:45	MAHESANA RMS TMO			Item Received	
08/04/2025	23:07:48	Mehasana PH			Item Dispatched	
08/04/2025	22:26:27	Mehasana PH			Item Bagged	
08/04/2025	19:41:32	Mehasana PH			Item Received	
08/04/2025	18:18:59	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	18:17:55	MAHESANA RMS TMO			Item Received	
08/04/2025	17:09:42	Mahesana HO			Item Dispatched	
08/04/2025	17:03:40	Mahesana HO			Item Bagged	
08/04/2025	15:34:05	Mahesana HO			Item Booked	

Indicates a required field.

Consignment Number

CG138922157IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	370210	46.00	Registered Parcel	Kandla Port SO	15/04/2025 14:26:44
Event Details For : CG138922157IN						
Date	Time	Office		Event		
15/04/2025	14:26:44	Kandla Port SO		Item Delivered(Addressee)		
15/04/2025	11:33:05	Kandla Port SO		Out for Delivery		
15/04/2025	11:15:20	Kandla Port SO		Item Received		
15/04/2025	07:47:09	Bhuj Sorting		Item Dispatched		
15/04/2025	07:23:44	Bhuj Sorting		Item Received		
15/04/2025	07:19:22	Bhuj PH		Item Dispatched		
15/04/2025	06:25:21	Bhuj PH		Item Bagged		
15/04/2025	05:33:46	Bhuj PH		Item Received		
14/04/2025	12:56:38	Bhuj PH		Item Bagged		
14/04/2025	05:39:01	Bhuj PH		Item Received		
13/04/2025	11:55:55	Bhuj PH		Item Bagged		
13/04/2025	06:38:37	Bhuj PH		Item Received		
12/04/2025	20:53:04	Bhuj PH		Item Bagged		
12/04/2025	19:33:20	Bhuj PH		Item Received		
12/04/2025	19:12:19	Bhuj Sorting		Item Dispatched		
12/04/2025	19:11:33	Bhuj Sorting		Item Received		
12/04/2025	15:15:26	Mundra SO		Item Dispatched		
12/04/2025	15:10:32	Mundra SO		Item Bagged		
12/04/2025	10:48:42	Mundra SO		Item Redirected to Kandla Port SO Insufficient Address		
12/04/2025	08:30:04	Mundra SO		Item Received		
11/04/2025	08:59:58	Bhuj Sorting		Item Dispatched		
11/04/2025	08:57:51	Bhuj Sorting		Item Received		
11/04/2025	08:38:15	Bhuj PH		Item Dispatched		
11/04/2025	08:13:38	Bhuj PH		Item Bagged		
11/04/2025	05:53:07	Bhuj PH		Item Received		
11/04/2025	05:44:17	Bhuj Sorting		Item Dispatched		
11/04/2025	05:37:50	Bhuj Sorting		Item Received		
09/04/2025	00:05:57	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	23:18:45	MAHESANA RMS TMO		Item Received		
08/04/2025	23:07:48	Mehesana PH		Item Dispatched		
08/04/2025	22:25:10	Mehesana PH		Item Bagged		
08/04/2025	19:41:32	Mehesana PH		Item Received		
08/04/2025	18:18:59	MAHESANA RMS TMO		Item Dispatched		
08/04/2025	18:17:55	MAHESANA RMS TMO		Item Received		
08/04/2025	17:09:42	Mahesana HO		Item Dispatched		
08/04/2025	17:03:40	Mahesana HO		Item Bagged		
08/04/2025	15:34:05	Mahesana HO		Item Booked		

Indicates a required field.

199

GIFT Power Company Ltd

Consignment Number

CG138922143IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	382050	46.00	Registered Parcel	Gift City SO	15/04/2025 15:15:03
Event Details For : CG138922143IN						
Date	Time	Office			Event	
15/04/2025	15:15:03	Gift City SO			Item Delivered(Addressee)	
15/04/2025	10:25:09	Gift City SO			Out for Delivery	
15/04/2025	09:00:06	Gift City SO			Item Received	
09/04/2025	18:15:57	GANDHINAGAR SORTING TMO			Item Dispatched	
09/04/2025	17:34:10	GANDHINAGAR SORTING TMO			Item Received	
09/04/2025	14:00:47	Ahmedabad PH			Item Dispatched	
09/04/2025	13:21:36	Ahmedabad PH			Item Bagged	
09/04/2025	08:34:46	Ahmedabad PH			Item Received	
09/04/2025	00:05:57	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	23:18:45	MAHESANA RMS TMO			Item Received	
08/04/2025	23:07:48	Mehasana PH			Item Dispatched	
08/04/2025	20:00:06	Mehasana PH			Item Bagged	
08/04/2025	19:41:32	Mehasana PH			Item Received	
08/04/2025	18:18:59	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	18:17:55	MAHESANA RMS TMO			Item Received	
08/04/2025	17:09:42	Mahesana HO			Item Dispatched	
08/04/2025	17:03:40	Mahesana HO			Item Bagged	
08/04/2025	15:34:05	Mahesana HO			Item Booked	

Current Status : Item Delivered(Addressee)

Indicates a required field.

200

Jubilant Infrastructure Ltd

Consignment Number

CG138922130IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
Mahesana HO	08/04/2025 15:34:05	392012	46.00	Registered Parcel	Maktampur SO	11/04/2025 12:10:50
Event Details For : CG138922130IN						
Date	Time	Office			Event	
11/04/2025	12:10:50	Vilayat BO			Item Delivered(Addressee)	
11/04/2025	09:10:30	Dayadra SO			Dispatched to BO	
11/04/2025	08:28:35	Dayadra SO			Item Received	
11/04/2025	02:45:49	Bharuch RMS TMO			Item Dispatched	
10/04/2025	18:59:36	Bharuch RMS TMO			Item Received	
10/04/2025	18:36:22	Bharuch PH			Item Dispatched	
10/04/2025	18:16:00	Bharuch PH			Item Bagged	
10/04/2025	14:50:55	Bharuch PH			Item Received	
10/04/2025	03:55:34	Bharuch RMS TMO			Item Dispatched	
10/04/2025	03:50:49	Bharuch RMS TMO			Item Received	
09/04/2025	00:05:57	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	23:18:45	MAHESANA RMS TMO			Item Received	
08/04/2025	23:07:48	Mehasana PH			Item Dispatched	
08/04/2025	22:26:04	Mehasana PH			Item Bagged	
08/04/2025	19:41:32	Mehasana PH			Item Received	
08/04/2025	18:18:59	MAHESANA RMS TMO			Item Dispatched	
08/04/2025	18:17:55	MAHESANA RMS TMO			Item Received	
08/04/2025	17:09:42	Mahehana HO			Item Dispatched	
08/04/2025	17:03:40	Mahehana HO			Item Bagged	
08/04/2025	15:34:05	Mahehana HO			Item Booked	

Current Status : Item Delivered(Addressee)

Indicates a required field.

201

Consignment Number

CG138922126IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location
Mahesana HO	08/04/2025 15:34:05	370421	46.00	Registered Parcel	Mundra SO
Event Details For : CG138922126IN					
				Current Status : Item Bagged	
Date	Time	Office		Event	
12/04/2025	10:55:52	Mundra SO		Item Bagged	
12/04/2025	10:55:52	Mundra SO		Dispatched to BO	
12/04/2025	10:55:52	Mundra SO		Item Dispatched	
12/04/2025	08:30:04	Mundra SO		Item Received	
11/04/2025	08:59:58	Bhuj Sorting		Item Dispatched	
11/04/2025	08:57:51	Bhuj Sorting		Item Received	
11/04/2025	08:38:15	Bhuj PH		Item Dispatched	
11/04/2025	08:13:38	Bhuj PH		Item Bagged	
11/04/2025	05:53:07	Bhuj PH		Item Received	
11/04/2025	05:44:17	Bhuj Sorting		Item Dispatched	
11/04/2025	05:37:50	Bhuj Sorting		Item Received	
11/04/2025	00:05:57	MAHESANA RMS TMO		Item Dispatched	
08/04/2025	23:18:45	MAHESANA RMS TMO		Item Received	
08/04/2025	23:07:48	Mehasana PH		Item Dispatched	
08/04/2025	22:25:10	Mehasana PH		Item Bagged	
08/04/2025	19:41:32	Mehasana PH		Item Received	
08/04/2025	18:18:59	MAHESANA RMS TMO		Item Dispatched	
08/04/2025	18:17:55	MAHESANA RMS TMO		Item Received	
08/04/2025	17:09:42	Mahesana HO		Item Dispatched	
08/04/2025	17:03:40	Mahesana HO		Item Bagged	
08/04/2025	15:34:05	Mahesana HO		Item Booked	



Indicates a required field.

202

TPL-MBSIR

Consignment Number

CG138922041IN

Track More

Booked At	Booked On	Destination Pincode	Tariff	Article Type	Delivery Location	Delivery Confirmed On
MaheSana HO	08/04/2025 15:34:05	380001	46.00	Registered Parcel	Manekbag SO	15/04/2025 17:03:05
Event Details For : CG138922041IN						
Date	Time	Office	Event			
15/04/2025	17:03:05	NDC Ellisbridge	Item Delivered(Addressee)			
15/04/2025	09:06:23	NDC Ellisbridge	Out for Delivery			
15/04/2025	07:43:07	NDC Ellisbridge	Item Received			
12/04/2025	14:40:32	Ahmedabad PH	Item Dispatched			
12/04/2025	12:33:57	Ahmedabad PH	Item Bagged			
12/04/2025	09:19:43	Ahmedabad PH	Item Received			
11/04/2025	16:52:12	NDC Gandhinagar	Item Dispatched			
11/04/2025	16:45:59	NDC Gandhinagar	Item Bagged			
11/04/2025	15:14:36	NDC Gandhinagar	Item Redirected to Ahmedabad GPO Insufficient Address			
11/04/2025	10:41:05	NDC Gandhinagar	Item Received			
09/04/2025	13:55:13	Ahmedabad PH	Item Dispatched			
09/04/2025	09:31:52	Ahmedabad PH	Item Bagged			
09/04/2025	08:34:46	Ahmedabad PH	Item Received			
09/04/2025	00:05:57	MAHESANA RMS TMO	Item Dispatched			
08/04/2025	23:18:45	MAHESANA RMS TMO	Item Received			
08/04/2025	23:07:48	Mehasana PH	Item Dispatched			
08/04/2025	20:00:06	Mehasana PH	Item Bagged			
08/04/2025	19:41:32	Mehasana PH	Item Received			
08/04/2025	18:18:59	MAHESANA RMS TMO	Item Dispatched			
08/04/2025	18:17:55	MAHESANA RMS TMO	Item Received			
08/04/2025	17:09:42	Mahesana HO	Item Dispatched			
08/04/2025	17:03:40	Mahesana HO	Item Bagged			
08/04/2025	15:34:05	Mahesana HO	Item Booked			

Re: Petition under section 181 read with 86 of the electricity act, 2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations, 2016 and other applicable provisions for exemption from the requirement of entering into agreement for Net Metering for Residential Consumers installing Roof Top Solar PV plants under PM Surya Ghar Mufat Bijli Yojana.

From: gerc.ugvcl@yahoo.com (gerc.ugvcl@yahoo.com)

To: eerc.mgvc1@gebmail.com; jrs.mgvc1@gebmail.com; jrs.mgvc1@gmail.com; eegerc.pgvc1@gebmail.com; degerc.pgvc1@gebmail.com; decr.dgvc1@gebmail.com; dgvc1.decr@gmail.com; eegerc.dgvc1@gebmail.com; chetanbundela@torrentpower.com; jigneshlangalia@torrentpower.com; lunapal@torrentpower.com; mehul.rupera@adani.com; anil.rabadia@adani.com; arvindkumar.rajput@giftgujarat.in; prashant.dadheech@giftgujarat.in; rakesh.inala@giftgujarat.in; apurva@aspensez.in; jalpesh@aspensez.in; mahesh.kmandwarya@jubl.com; ishwar.patre@jubl.com; xenedpt@gmail.com; xenedpa@gmail.com; dpt.schedule@gmail.com; xenkpt@gmail.com; electricalkandla@gmail.com

Cc: det.guvnl@gebmail.com; jecom1.guvnl@gebmail.com; aceproject@ugvcl.com; sesolar@ugvcl.com; eesolar@ugvcl.com; desolar1@ugvcl.com; secom@ugvcl.com; gerccell@ugvcl.com; aneeshbajaj7@gmail.com

Date: Tuesday, April 22, 2025 at 03:48 PM GMT+5:30

Sir,

Please find enclosed h/w Petition under section 181 read with 86 of the electricity act, 2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations, 2016 and other applicable provisions for exemption from the requirement of entering into agreement for Net Metering for Residential Consumers installing Roof Top Solar PV plants under PM Surya Ghar Mufat Bijli Yojana along with annexures.

https://drive.google.com/drive/folders/1_8kjrBY7v6a2nOOCpcH3wfp_p0liE248?usp=sharing

This is for kind information and needful please.

FORM – I

Sr. No.	Particulars	Details
1	Name of the Petitioner	PASCHIM GUJARAT VIJ COMPANY LIMITED
2	Address of the Petitioner	“Paschim Gujarat Vij Seva Sadan” Laxminagar, Off Nana Mava Road, Rajkot – 360 004
3	Petition no. if any	--
4	Subject Matter	181 read with 86 of the Electricity Act, 2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net metering Rooftop solar PV Grid interactive systems) Regulations, 2016
5	Details of fees remitted	
	(a) UTR No.	SBIN525080972126
	(b) Date of Remittance	21.03.2025
	(c) Amount remitted	10,000/-
	(d) Bank name & Branch	State Bank Of India, Gymkhana Branch Rajkot

FORM -1

Sr No	Particulars	Details
1.	Name of petitioners	Madhya Gujarat Vij Company Limited
2.	Address of petitioners	Madhya Gujarat Vij Company Limited , Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390 007
3.	Petition no., if any	--
4.	Subject Matter	Fees for filing the petition under Section 86.
5.	Details of fees remitted	
	a) UTR No.,	CBINN62025032693168255
	b) Date of remittance	26.03.2025
	c) Amount remitted	10,000/-
	d) Bank Name and Branch	CANERA BANK



DGVCCL

Dakshin Gujarat Vij Company Limited.

Regd. Office: "Urja Sadan", Corporate Office,
Nana Varachha Road, Kapodara Char Rasta, Surat - 395 006
CIN:U40102GJ2003SGC042909

Commerce & Regulatory Deptt.

Phone No.: 0261 - 2506171/ 2506200, Fax No.: 0261 - 2506126
E-mail: acegerc.dgvccl@gmail.com



Details for Payable fees remitted

	Particulars	Details
1.	Name of the Petitioner /Applicant	Dakshin Gujarat Vij Company Limited (DGVCCL)
2.	Address of the Petitioner /Applicant	DGVCCL, Regd. Office: "Urja Sadan", Corporate Office, Nana Varachha Road, Kapodara Char Rasta, Surat - 395 006
3.	Petition No., If any.	
4.	Subject Matter	Petition Under Section 181 Read with 86 of The Electricity Act, 2003 Read with Regulations 18, 19 and 20 Of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) Regulations, 2016 and other applicable provisions for exemption from the requirement of entering into Agreement for Net Metering for Residential Consumers Installing Roof Top Solar PV Plants under PM Surya Ghar Mukt Bija Yojana.
5.	Details of fee remitted	
a)	UTR/DD/Cheque No.	NEFT-BARBW25083889531
b)	Date of remittance	24-03-2025
c)	Amount remitted	10,000
e)	Bank name & Branch	Bank of Baroda, BHAGATALAO, SURAT



Uttar Gujarat Vij Company Limited

CIN - U40102GJ2003SGC042906

(A subsidiary of Gujarat Urja Vikas Nigam Limited)

No. UGVCL/R&C/Commerce/GERC Cell/ 587

Date - 12/08/2025

BY RPAD

To,
The Secretary
Gujarat Electricity Regulatory Commission,
6th Floor, GIFT One,
Road 5C, Zone 5,
Gandhinagar 382 050

Sub.: Submission of the affidavit for details of the public notice published for inviting comments/objections/suggestions/views in Petition no. 2475 of 2025.

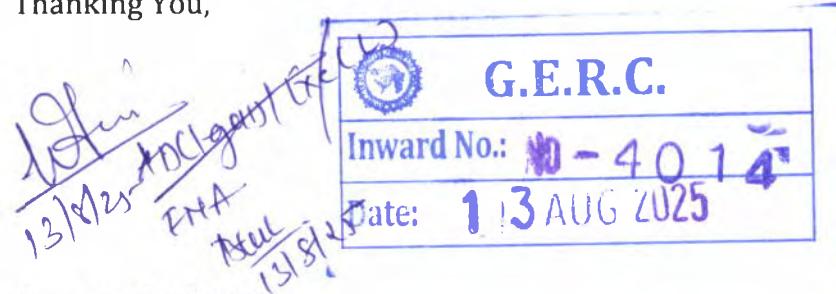
Ref.: Hon'ble GERC daily order dated 02.08.2025 in petition no.2475/2025.

Respected Sir,

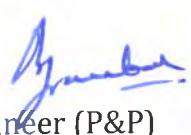
As directed by Hon'ble Commission vide referred daily order, UGVCL has published notice in daily newspapers for above referred petition no. 2475/2025. Public notices in Two nos of vernacular (Gujarati) Newspaper namely "SANDESH" & "DIVYA BHASKAR" and one in English Newspaper namely "INDIAN EXPRESS" were published on dated 09.08.2025 for inviting comments/ suggestions/ objections from stakeholders in Petition under section 181 read with 86 of the electricity act,2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations,2016 and other applicable provisions for exemption from the requirement of entering into agreement for net metering for residential consumers installing roof top solar PV plants under PM Surya Ghar Muft Bijli Yojana.

Please find enclosed here with the five (5) copies of both the daily newspapers along with the necessary affidavit. Also, soft copy the Petition is available on Website.

Thanking You,



Yours Faithfully,


Chief Engineer (P&P)
UGVCL, Mehsana

Copy to : By RPAD

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.



Uttar Gujarat Vij Company Limited

CIN - U40102GJ2003SGC042906

(A subsidiary of Gujarat Urja Vikas Nigam Limited)

2. Torrent Power Limited-Distribution(Surat) [TPL-D(5)],
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.
3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)],
Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130
4. Torrent Power Limited - Distribution (Dholera),
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL),
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA),
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch 370210.
7. GIFT Power Company Limited,
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.,
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR),
Torrent Power Ltd
'Samanvay'600-Tapovan, Ambawadi,
Ahmedabad-380015.

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY
COMMISSION
AT GANDHINAGAR

PETITION NO. 2475 OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003 READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING ROOF TOP SOLAR PV PLANTS UNDER PM SURYA GHAR MUFT BIJLI YOJANA

IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited,
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (N.G.).
2. Madhya Gujarat Vij Company Limited,
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007.
3. Paschim Gujarat Vij Company Limited,
Through its Managing Director
Paschim Gujarat Vij Seva Sadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 3600004.
4. Dakshin Gujarat Vij Company Limited,
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006.

... Petitioners

Versus

1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. Torrent Power Limited-Distribution(Surat) [TPL-D(5)],
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.
3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)],
Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130



4. Torrent Power Limited - Distribution (Dholera),
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL),
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA),
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch
370210.
7. GIFT Power Company Limited,
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.,
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR),
Torrent Power Ltd
'Samanvay'600-Tapovan, Ambawadi,
Ahmedabad-380015.



**In Compliance to the direction given by Hon'ble commission
vide daily order dated 02.08.2025**

Petitioner Most Respectfully Submits:

Petitioners have file Petition vide Petition no. 2475 of 2025 under section 181 read with 86 of the electricity act,2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations,2016 and other applicable provisions for exemption from the requirement of entering into agreement for net metering for residential consumers installing roof top solar PV plants under PM Surya Ghar Muft Bijli Yojana.

Hon'ble Commission vide daily order dated 02.08.2025 has directed Petitioner to issue public notice in two daily Gujarati Newspapers and One English Newspaper having wide circulation in the state. Accordingly, UGVCL has published public notice jointly with all state DISCOMs having vide circulation in all over Gujarat, Two nos of Gujarati Newspaper namely "SANDESH" & "DIVYA BHASKAR" and One in English Newspaper namely "INDIAN EXPRESS" on dated 09.08.2025 for inviting comments/ suggestions/ objections from stakeholders in Petition filed under section 181 read with 86 of the electricity act,2003 read with regulation 18, 19 and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations,2016 and other applicable provisions for exemption from the requirement of entering into agreement for net metering for residential consumers installing roof top solar PV plants under PM Surya Ghar Muft Bijli Yojana.

The clipping of the relevant newspapers dated 09.08.2025 are marked as Annexure "A" and submitted herewith for the perusal of the Hon'ble Commission.



DATE: 11.08.2025

PLACE: Mehsana



DEPONENT

BEFORE THE HON'BLE GUJARAT ELECTRICITY REGULATORY
COMMISSION
AT GANDHINAGAR

PETITION NO. 2475 OF 2025

IN THE MATTER OF:

PETITION UNDER SECTION 181 READ WITH 86 OF THE ELECTRICITY ACT, 2003 READ WITH REGULATION 18, 19 and 20 OF GUJARAT ELECTRICITY REGULATORY COMMISSION (NET METERING ROOFTOP SOLAR PV GRID INTERACTIVE SYSTEMS) REGULATIONS, 2016 AND OTHER APPLICABLE PROVISIONS FOR EXEMPTION FROM THE REQUIREMENT OF ENTERING INTO AGREEMENT FOR NET METERING FOR RESIDENTIAL CONSUMERS INSTALLING ROOF TOP SOLAR PV PLANTS UNDER PM SURYA GHAR MUFT BIJLI YOJANA

IN THE MATTER OF:

1. Uttar Gujarat Vij Company Limited,
Through its Managing Director,
Corporate Office, Visnagar Road,
Mehsana 384001 (N.G.).
2. Madhya Gujarat Vij Company Limited,
Through its Managing Director
Sardar Patel Vidyut Bhavan
Racecourse
Vadodara - 390 007.
3. Paschim Gujarat Vij Company Limited,
Through its Managing Director
Paschim Gujarat Vij Seva Sadan
Off. Nana Mava Main Road, Laxminagar
Rajkot - 3600004.
4. Dakshin Gujarat Vij Company Limited,
Through its Managing Director
Kaporda Char Rasta,
Nana Varcha Road
Surat - 395006.

... Petitioners

Versus



1. Torrent Power Limited - Distribution (Ahmedabad) [TPL-D (A)]
Torrent Power Limited,
'Samanvay' 600 - Tapovan, Ambawadi, Ahmedabad - 380015.
2. Torrent Power Limited-Distribution(Surat) [TPL-D(5)],
Torrent Power Limited,
Torrent House, Station Road, Surat - 395 003.
3. Torrent Power Limited - Distribution (Dahej) [TPL-D (D)],
Torrent Power Limited, Plot No. Z/21, Dahej SEZ Part 1, At: Dahej
Tal.: Vagra, Dist.: Bharuch - 392 130

4. Torrent Power Limited - Distribution (Dholera),
Torrent Power Limited, 'Samanvay' 600 - Tapovan, Ambawadi,
Ahmedabad - 380015.
5. AspenPark Infra Vadodara Private Limited (AIVPL),
The Director, AspenPark Infra Vadodara Private Ltd., Survey No. 26,
Village Pipaliya, Taluka: Waghodia, Dist. - Vadodara - 391760.
6. The Chairman, Deendayal Port Authority (DPA),
(erstwhile Deendayal Port Trust / Kandla Port Trust)
Deendayal Port Trust,
06, Ground Floor, Port & Custom Building, New Kandla, Kutch
370210.
7. GIFT Power Company Limited,
EPS - Building No.49A, Block 49, Zone 04, Gyan Marg, GIFT City,
Gandhinagar - 382 050.
8. Jubilant Infrastructure Ltd.,
Plot No. 5, Vilayat GIDC, Tal. - Vagra, Dist.- Bharuch - 392 012.
9. MPEZ Utilities Ltd.,
2nd Floor, Adani House,
Adani Ports and Special Economic Zone Ltd. (APSEAL)
Navinal Island, Near Dhrub, Mundra, Kutch - 370 421
10. Torrent Power Ltd (MBSIR),
Torrent Power Ltd
'Samanvay'600-Tapovan, Ambawadi,
Ahmedabad-380015.



AFFIDAVIT

215

SERIAL NO.	1132
BOOK NO.	05
PAGE NO.	114
DATE	11/8/25

I, Ishwarbhai Katara S/o Galjibhai Katara, aged about 49 years, resident of Gandhinagar hereby solemnly affirms and state as under:

1. I am the Superintending Engineer (Solar) of the Petitioner and am duly authorized to make this affidavit.
2. I have gone through the contents of the accompanying reply and I say that the facts stated therein are based on the records of the Petitioner and are believed by the deponent to be true.
3. The Annexures to the Petition are true copies of their originals.

Agree
DEPONENT

VERIFICATION:

I, the deponent above named do hereby verify that the contents of my above Affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Mehsana on this 11th day of August, 2025

Agree
DEPONENT



Solely Affirmed & Signed
BEFORE ME

J. M. Chaudhary
NOTARY
GOVT OF INDIA MEHSANA
11/8/25



Annexure - A

INDIAN EXPRESS Page no. 10

Uttar Gujarat Vij Company Ltd
Dakshin Gujarat Vij Company Ltd

Madhya Gujarat Vij Company Ltd
Paschim Gujarat Vij Company Ltd

PUBLIC NOTICE

**Before Hon'ble Gujarat Electricity Regulatory Commission in the
matter of Petition No. 2475/2025**

State owned electricity distribution companies namely Uttar Gujarat Vij Company Limited (UGVCL) along with MGVCL, DGVCL and PGVCL have filed Petition No. 2475/2025 before Hon'ble Gujarat Electricity Regulatory Commission (GERC) under section 181 read with 86 of the electricity act,2003 read with regulation 18,19, and 20 of Gujarat Electricity Regulatory Commission (Net Metering Rooftop Solar PV Grid Interactive Systems) regulations,2016 and other applicable provisions for exemption from the requirement of entering into agreement for net metering for residential consumers installing rooftop solar PV plants under PM SURYA GHAR MUFT BIJLI YOJANA.

In the matter, Hon'ble GERC vide order dated 2nd August, 2025 has directed UGVCL, MGVCL, DGVCL & PGVCL to issue a public notice inviting objection/comments/views/suggestions from the stakeholders on the said petition.

The petition filed is uploaded on website www.ugvcl.com, www.mgvcl.com, www.dgvcl.com, www.pgvcl.com

The stakeholders may submit their written objections/ suggestions/ views/comments in the matter on affidavit in five copies to The Secretary, Gujarat Electricity Regulatory Commission, 6th Floor, GIFT ONE, Road 5C, Zone 5, Gift City, Gandhinagar - 382050 with a copy to the petitioner within 30 days' time from the date of this public notice.

Chief Engineer (P&P) Chief Engineer (P) Chief Engineer (C&RE) Chief Engineer (P&RE)
UGVCL MGVCL DGVCL PGVCL

Date: 09.08.2025

ઉત્તર ગુજરાત વીજ કંપની લીમીટેડ
દક્ષિણ ગુજરાત વીજ કંપની લીમીટેડ

મધ્ય ગુજરાત વીજ કંપની લીમીટેડ
પશ્ચિમ ગુજરાત વીજ કંપની લીમીટેડ

જાહેર વિજાહિ

માનનીય ગુજરાત વિધુત નિયંત્રક આયોગ, ગાંધીનગર સમક્ષ રજુ કરેલ પીટીશન અરજી નં. ૨૪૭૫/૨૦૨૫ સંદર્ભે

રાજ્ય સરકાર ઇસ્તકની ઉત્તર ગુજરાત વીજ કંપની લિમિટેડ, મધ્ય ગુજરાત વીજ કંપની લિમિટેડ, દક્ષિણ ગુજરાત વીજ કંપની લિમિટેડ અને પશ્ચિમ ગુજરાત વીજ કંપની લિમિટેડ દ્વારા નામદાર ગુજરાત વીજ નિયમન આયોગ (GERC) સમક્ષ ગુજરાત વીજ નિયમન આયોગ નેટ મીટરીંગ રૂફ્ટોપ સોલાર પીવી ગ્રીડ ઇન્ટરબેક્ટીવ સીસ્ટમ) ના અધિનિયમ, ૨૦૧૬ ની કબમ ૧૮,૧૮, અને ૨૦ સાથે વીજાની અધિનિયમ, ૨૦૦૩ ની કબમ ૧૧૧ અને ૮૬ હેઠળ અને અન્ય લાગુ જોગવાઈઓ સાથે પીએમ સુર્ય ઘર મુદ્દ્ધત બીજાની યોજના હેઠળ રૂફ્ટોપ સોલાર પીવી ખાન્ટ સ્થાપિત કરતા દરેખું વીજગ્રાહકો માટે નેટ મીટરીંગ કરારની આવશ્યકતા માંથી મુક્કિન માટે ની દરખાસ્ત અરજી નં. ૨૪૭૫/૨૦૨૫ થી આયોગ સમક્ષ કરેલ છે.

આ સંદર્ભે, નામદાર આયોગ દ્વારા તા. ૦૨૦૮.૨૦૨૫ ના ઓર્ડરથી ઉત્તર ગુજરાત વીજ કંપની લિ. તથા અન્ય અરજદાર કંપનીઓને આ પીટીશન અંગે જાહેર વિજાહિ આપી અસરકર્તા પક્ષકારો પાસેથી તેમાના વાંધા/ સુખનો/ મંતવ્યો મંગાવવા માટે નિર્દેશ કરેલ છે.

સદર પીટીશન વીજ કંપનીઓની વેબસાઇટ www.uvgcl.com, www.mvgcl.com, www.dvgcl.com, www.pvgcl.com પર ઉપલબ્ધ છે.

ખાલી, અસરકર્તા પક્ષકારો આ અંગેના વેખિત સુખનો/ મંતવ્યો/વાંધાઓ પુચ્છવા સહીત સોંગંદનામા પર પાંચ નકલમાં સાચિવશ્રી, ગુજરાત વિધુત નિયંત્રક આયોગ, છઠો માળ, જિફ્ટ વન, રોડ નં. ૫-૮, જિફ્ટ સિટી, ગાંધીનગર - ૩૮૨૦૫૦ ને તેમજ એક નકલ અરજદાર વીજ કંપની ને આ જાહેર વિજાહિના ૩૦ દિવસમાં રજુ કરી શકે છે.

મુખ્ય છજનેર (પીક્ષપી)
દુષ્ટુવીસીએલ

મુખ્ય છજનેર (પી)
દેમજુવીસીએલ

મુખ્ય છજનેર (વા. અને
નિ.)
ડીજુવીસીએલ

મુખ્ય છજનેર (પી, સં. અને નિ.)
પીજુવીસીએલ

ઉત્તર ગુજરાત વીજ કંપની લિમિટેડ મધ્ય ગુજરાત વીજ કંપની લિમિટેડ
દક્ષિણ ગુજરાત વીજ કંપની લિમિટેડ પશ્ચિમ ગુજરાત વીજ કંપની લિમિટેડ

જાહેર વિજાહિ

માનનીય ગુજરાત વિધુત નિયંત્રક આયોગ, ગાંધીનગર સમક્ષ રજુ કરેલ પીટીશન અરજી નં. ૨૪૭૫/૨૦૨૫ સંદર્ભે

રાજ્ય સરકાર છસ્તકની ઉત્તર ગુજરાત વીજ કંપની લિમિટેડ, મધ્ય ગુજરાત વીજ કંપની લિમિટેડ, દક્ષિણ ગુજરાત વીજ કંપની લિમિટેડ અને પશ્ચિમ ગુજરાત વીજ કંપની લિમિટેડ દ્વારા નામદાર ગુજરાત વીજ નિયમન આયોગ (GERC) સમક્ષ, ગુજરાત વીજ નિયમન આયોગ (નેટ મીટરીંગ રૂલ્ઝ્ટોપ સોલાર પીવી શ્રીડ ઇન્ટરએક્ટીવ સીસ્ટમ) ના અધિનિયમ, ૨૦૧૬ ની કલમ ૧૮,૧૯,અને ૨૦ સાથે વીજથી અધિનિયમ, ૨૦૦૩ ની કલમ ૧૮૧ અને ૮૬ હેઠળ અને અન્ય લાગુ જોગવાઈઓ સાથે પીએમ સ્કૂર્ચ ધર મુક્ત બીજલી યોજના હેઠળ રૂલ્ઝ્ટોપ સોલાર પીવી પ્લાન્ટ સ્થાપિત કરતા ધરેલું વીજગ્રાહકો માટે નેટ મીટરીંગ કરારની આવશ્યકતા માંથી મુક્તિ માટે ની દરખાસ્ત અરજી નં. ૨૪૭૫/૨૦૨૫ થી આયોગ સમક્ષ કરેલ છે.

આ સંદર્ભ, નામદાર આયોગ દ્વારા તા. ૦૨.૦૮.૨૦૨૫ ના ઓર્ડરથી ઉત્તર ગુજરાત વીજ કંપની વિ. તથા અન્ય અરજદાર કંપનીઓને આ પીટીશન અંગે જાહેર વિજાહિ આપી અસરકર્તા પક્ષકારો પાસેથી તેમના વાંધા/ સુધનો/ મંતવ્યો મંગાવવા માટે નિર્દ્દશ કરેલ છે.

સદર પીટીશન વીજ કંપનીઓની વેબસાઇટ www.ugvcl.com, www.mgvcl.com, www.dgvcl.com, www.pgvcl.com પર ઉપલબ્ધ છે. આથી, અસરકર્તા પક્ષકારો આ અંગેના વેભિત સુધનો/ મંતવ્યો/વાંધાઓ પુરાવા સહીત સોંગનામા પર પાંચ નકલમાં સચિવશ્રી, ગુજરાત વિધુત નિયંત્રક આયોગ, છઠ્ઠો માળ, ગિફ્ટ વન, રોડ નં. ૫-૮, ગિફ્ટ સિટી, ગાંધીનગર - ૩૮૨૦૫૦ ને તેમજ એક નકલ અરજદાર વીજ કંપની ને આ જાહેર વિજાહિના ત૦ દિવસમાં રજુ કરી શકે છે.

મુખ્ય ઇજનેર (પી.એ.પી.)

યુજીવીસીએલ

મુખ્ય ઇજનેર (પી.)

એમ્યુજીવીસીએલ

મુખ્ય ઇજનેર (વા. અને

નિ.)

મુખ્ય ઇજનેર (પી., સં. અને નિ.)

પીજીવીસીએલ

ડીજીવીસીએલ

તારીખ: ૦૮/૦૮/૨૦૨૫