

**VIRTUAL NET METERING CONNECTION AGREEMENT FOR RENEWABLE ENERGY**

**(On Rs. 100/- stamp paper with Notary Stamp)**

**This Virtual Net Metering Connection Agreement for Renewable Energy** (hereinafter referred to as “Agreement”) is made and executed at New Delhi on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_ but the same shall be effective from \_\_\_\_\_ 20\_\_ (Effective Date)

**Between**

Sh/Smt \_\_\_\_\_ (**capacity such as office bearer, representative etc. be also mentioned**), s/o, d/o, w/o \_\_\_\_\_, resident of \_\_\_\_\_ having electricity connection CA. No....., as registered consumer of TPDDL at..... (address of premises as per TPDDL record)

**OR** \_\_\_\_\_ (detail of entity/consumers eligible for virtual net metering framework) having its registered office at \_\_\_\_\_, having electricity connection CA. No. ...., as registered consumer of TPDDL at .....(address of premises as per TPDDL record)

[hereinafter referred to as **Consumer**] which expression shall, unless repugnant to the context or meaning thereof, include its successors and assigns; of the first party.

**And**

**Tata Power Delhi Distribution Limited**, a company incorporated under the Companies Act, 1956 having its registered office at NDPL House, Hudson Lines, Kingsway Camp, Delhi-110009 [hereinafter referred to as **TPDDL**] which expression shall, unless repugnant to the context or meaning thereof, include its successors and assigns; of the second party.

That the Consumer and TPDDL shall hereinafter individually be referred to as ‘Party’ and collectively referred to as ‘Parties’;

Whereas, the Consumer has decided to install and maintain a Renewable Energy System on the following premises \_\_\_\_\_ having capacity of KW/\_\_\_\_\_KVA(not less than 5 KW and more than 5000 KW) and associate it with CA. nos.(all Ca. No. are to be mentioned ) for virtual net metering system .The consumers associated with virtual net metering framework shall hereinafter be referred as participating

consumers in terms of DERC (Group Net Metering and Virtual Net Metering for Renewable Energy) Guidelines,2019. (all aforementioned connections is located within the area of supply of TPDDL in terms of DERC (Net Metering for Renewable Energy) Regulations, 2014)

Whereas the Renewable Energy system shall be connected with CA. No.....at .....(premises) (should be same as mentioned above in first para while introducing parties)

AND Whereas the Consumer has submitted application no. \_\_\_\_\_ for registration and connection of the above Renewable Energy System to the distribution system of TPDDL, and for virtual net metering arrangement which has been accepted by TPDDL.

AND whereas the energy generated from the above Renewable Energy System shall be accounted for under virtual net metering arrangements as per the terms and conditions of this agreement and applicable laws.

Now, in terms of the Net metering Regulations, Guidelines the parties are executing the Connection Agreement to provide their respective, rights, obligations in relation to the net metering and virtual net metering arrangements which shall be governed by the following terms, conditions hereto as follows:

#### **Article I. DEFINITIONS AND INTERPRETATION**

1. In this Agreement, unless the context otherwise requires, the terms shall have the meanings set out hereunder:
  - a. **Applicable laws** shall mean such Central, State and local laws which apply to and govern the Parties including but not limited to the Delhi Electricity Reform Act, 2000, Electricity Act, 2003, Amendments thereto, Delhi Electricity Regulatory Commission Supply Code and Performance Standards) Regulations 2017, Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014, Guidelines under DERC (Net Metering for Renewable Energy) Regulations, 2014, DERC (Group Net metering and Virtual Net metering for Renewable Energy ) Guidelines 2019.DERC (Renewable Purchase Obligation) Regulations 2012,Central Electricity Authority (Measures relating to safety and electricity Supply) Regulations 2010, along with subsequent amendments thereof and others;
  - b. **Billing Period** means the period for which bill is raised by TPDDL as per normal billing cycle of consumer;
  - c. **Commission/DERC** means Delhi Electricity Regulatory Commission
  - d. **Consumer** means the person who is the registered consumer of TPDDL and is supplied with electricity by TPDDL.
  - e. **Day(s)** means any period specified by day(s) to be treated as

working days, unless specified otherwise;

- f. ***Distribution System*** means the system of wires and associated facilities between the delivery points on the transmission lines or the generating station connection and the point of connection to the installation of the consumers;
- g. ***Effective date*** shall mean the date agreed to between the parties and specified in this Agreement on which the terms of this Agreement shall be deemed to be enforceable on the parties to this Agreement and shall be the date on which the renewable energy system is connected to TPDDL Distribution Network
- h. ***Governmental Authority*** means any national, state, or local government, or any governmental, judicial, public or statutory instrumentality, administrative agency, authority, body or other governmental entity.
- i. ***Guidelines*** means Guidelines under DERC (Net Metering for Renewable Energy) Regulations, 2014 and guidelines under DERC (Group Net metering and Virtual Net metering for Renewable Energy ) Guidelines 2019 attached as (***Annexure A-1 & A-2*** and is to be considered as part of this agreement)
- j. ***Interconnection point means*** the interface of Renewable Energy source with the Distribution System ;
- k. ***Invoice*** means either a periodic bill/supplementary bill or a periodic invoice/supplementary invoice raised by TPDDL;
- l. ***kVAh*** means kilo volt ampere hour;
- m. ***kWp*** means kilo watt peak;
- n. ***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 net import and net export of electricity as the case may be;
- o. ***Premises*** includes any land, building, structure or rooftop or part or combination thereof;
- p. ***Regulations*** means Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014 (attached as ***Annexure A-3*** and is to be considered as part of this agreement)
- q. ***Renewable Energy Generator*** means the person, which may either be the consumer of the premises or any third party, who is responsible for generating electricity from Renewable Energy sources installed at the consumer's premises;

- r. **Renewable Energy System** means the system to generate electricity from such source(s) which are recognized as renewable energy source(s) by Ministry of New and Renewable Energy (MNRE) or any other agency as may be notified by Government of India/Commission
  - s. **Settlement Period** means period within which surplus energy generated in solar plant will be adjusted to subsequent bill by TPDDL
  - t. **Year or Financial Year** means the period beginning from first day of April in an English calendar year and ending with the thirty first day of March of the next year
2. References to persons shall include companies, bodies, corporate, unincorporated associations and partnerships.
  3. Words importing the singular shall include the plural and vice versa
  4. This Agreement shall be governed by DERC (Net Metering for Renewable Energy) Regulations, 2014 and the Guidelines/directions/rules thereto, as amended from time to time and shall constitute the entire understanding and Agreement arrived at between the Parties hereto.
  5. Unless the context otherwise requires, words or expressions occurring in this agreement and not defined herein but defined in the Delhi Electricity Regulatory Commission Supply Code and Performance Standards) Regulations 2017, DERC (Net Metering for Renewable Energy) Regulations, 2014 and guidelines thereto, Electricity Act, 2003, , relevant Tariff Order shall bear the same meaning as in the Act/ Electricity Rules/Tariff Order or in absence thereof, the meaning as commonly understood in the Electricity Supply Industry.
  6. The present agreement is executed in addition to the already executed agreement in force entered into between the parties at the time of application and energisation of the connection bearing CA. No.....
  7. In case of any conflict or inconsistency between any clause of the present agreement and applicable law/statute/regulations/directions/guidelines as amended from time to time, the latter shall prevail over the clauses of the present agreement.

## **Article II. A. OBLIGATIONS OF TPDDL**

1. TPDDL shall provide the Renewable Energy System connectivity to its Distribution

System subject to operational constraints as defined in Regulations and Guidelines.

2. The capacity of the Renewable Energy System shall be subject to the Regulations and Guidelines as amended from time to time.
3. TPDDL shall ensure at all times that the interconnection of the Renewable Energy System with its Distribution System is in complete conformity with the applicable laws, including the Central Electricity Authority (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013 and the Central Electricity Authority (Measures relating to Safety and Electric Supply), Regulations, 2010, as amended from time to time. The Consumer shall be bound to render all co-operation in ensuring the smooth interconnection to renewable Energy System.
4. TPDDL shall, within fifteen (15) days or such extended period from the date of installation of the Renewable Energy System shall procure, test and install the Net Meter. In case the Net Meter is procured by the consumer, TPDDL, within fifteen (15) days or such extended period from the intimation from the consumer regarding procurement of the Net Meter, shall test and install the Net Meter so procured.
5. For TPDDL's Distribution System up to the point of Net Meter, the responsibility of safe operation, maintenance and rectification of any defect in the system shall lie with TPDDL

#### **B. RIGHTS OF TPDDL**

1. TPDDL may disconnect the Renewable Energy System at any time in the event of possible threat/damage, from such Renewable Energy System to its distribution system, to prevent an accident or damage. Subject to clause II.A.3 and clause III.2. of this agreement, TPDDL may call upon the Renewable Energy Generator to rectify the defect within a reasonable time.
2. In case the capacity of Renewable Energy System already existing or future capacity sought to be connected to TPDDL's Distribution System is higher than the sanctioned load at the premises of the Consumer, the Consumer of the said Premises should have already paid the Service Line cum Development Charges at the time of the registration of the Renewable Energy System, as defined in Regulations and Guidelines, equal to the differential amount between the capacity of the RE system and the existing sanctioned load. Such SLD charges shall be determined as per the Delhi Electricity Regulatory Commission Supply Code and Performance Standards) Regulations 2017 as amended from time to time and relevant directions issued by the DERC from time to time.

#### **Article III. OBLIGATIONS OF THE CONSUMER AND RENEWABLE ENERGY GENERATOR**

1. The Consumer shall provide access for installation of both the Renewable Energy Meter and Net Meter to TPDDL for measuring the quantum of energy injected into and from the TPDDL Distribution System. Any delay, obstacle in providing access to premises/site for undertaking such installation by TPDDL shall be attributed to consumer and not considered for timelines stipulated for meter installation.
2. The Renewable Energy Generator (hereinafter referred as RE Generator) shall be responsible for safe operation, maintenance and rectification of any defect of the Renewable Energy System up to the point of Net Meter. The consumer will ensure such obligation is performed during tenure of this agreement by the RE Generator.
3. The RE Generator may install grid interactive Renewable Energy system with or without battery backup at the Consumer Premises. Provided that if the Renewable Energy Generator, prefers connectivity with battery backup (full load backup/partial load backup), in all such cases the inverter shall have separate backup wiring to prevent the battery/Decentralized generation(DG) power to flow into the grid in the absence of grid supply. Manual isolation switch shall also be provided. The consumer shall ensure such obligation , precaution is undertaken by the RE generator
4. As per the DERC (Net Metering for Renewable Energy) Regulations, Guidelines, 2014, the RE Generator must ensure that the Renewable Energy System Complies with the following IEEE 519 CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations 2013:
  - (i) Harmonic current injections from a generating station shall not exceed the limits specified in IEEE 519
  - (ii) Renewable Energy 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 connection.
  - (iii) The voltage-operating window should minimize nuisance tripping and should be under operating range of 80% to 110% of the nominal connected voltage. Beyond a clearing time of 2 second, the Renewable Energy system must isolate itself from the grid.
  - (iv) Operation of Renewable Energy System should not cause voltage flicker in excess of the limits stated in IEC 61000 standards or other equivalent Indian standards, if any.
  - (v) When the Distribution system frequency deviates outside the specified conditions (50.5 Hz on upper side and 47.5 Hz on lower side), there should be over and under frequency trip functions with a clearing time of 0.2 seconds.
  - (vi) Renewable Energy System should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.
  - (vii) While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 should operate. The Renewable Energy System in the event of fault, voltage or frequency variations must island/disconnect itself within IEC standard on

stipulated period

- (viii) The inverter should have the facility to automatically switch off in case of overload or overheating and should restart when normal conditions are restored.
- (ix) Paralleling device of Renewable Energy System shall be capable of withstanding 220% of the normal voltage at the interconnection point.

**Article IV. METERS AND METER READING**

1. Meters shall be Meter Reading instrument (MRI) compliant or AMR (Automatic Meter Reading) or AMI (Advanced Metering Infrastructure) compliant for recording meter readings.
2. All the meters shall adhere to the standards as specified in CEA (Installation and Operation of meters) Regulations 2006 and (Installation and Operation of meters) Regulations, 2010 as amended from time to time.
3. The Net Meter shall be, as per single phase or three phase requirement. All the meters to be installed for net metering shall be of the same or better Accuracy Class Index than the existing meter installed at Consumer Premises.
4. The Renewable Energy Meter and the Net Meter at the premises of the consumer shall be procured and installed by TPDDL as per the provisions of Delhi Electricity Regulatory Commission Supply Code and Performance Standards) Regulations 2017  
However, if the consumer of the premises wishes to procure the Net Meter, he may procure such meter and present the same to the TPDDL for testing and installation. The consumer shall provide the Net meter within reasonable time to TPDDL, any delay in procurement of the Net Meter by the consumer shall not be held against TPDDL.
5. All meters, including the Renewable Energy Meter shall be installed at an accessible location of the Premises to facilitate easy access for meter reading to TPDDL.
6. Cost of the Net Meter, which is capable of recording both import and export of electricity, shall mean the differential cost between existing consumer meter, if removed and such a new Net Meter is installed to be borne by the consumer. The consumer shall bear the cost of the Net meter.
7. In case net metering is done with the help of two unidirectional meters, the cost of additional meter, other than the existing consumer meter shall be borne by the consumer
8. The charges for the testing and installation of the Net Meters shall be borne by the consumer of the premises and for the Solar Energy Meter shall be borne by TPDDL. This will be required to be done as per frequency prescribed by the Commission or as per requirement of TPDDL.

9. The Net Meters to be installed for the consumers of the premises under the ambit of time of day tariff shall be time of day (ToD) compliant.
10. Any dispute regarding the theft of electricity and tampering of meter(s) shall be settled as per the relevant provisions of the Electricity Act 2003 and the Delhi Electricity Regulatory Commission Supply Code and Performance Standards) Regulations 2017, as amended from time to time.
11. Defective Meter/Faulty meter cases:
  - (i) In the event the Net meter is found to be faulty/defective at any point of time during tenure of this Agreement, TPDDL shall replace the said Net Meter within reasonable period of time with another Net meter. No additional cost, expenses shall be payable by consumer for such replaced net meter.
  - (ii) TPDDL shall carry out the assessment of the RE generation in such cases, based on the readings of the Solar meter installed at RE system by TPDDL

**Article V. BILLING AND PAYMENT OF CHARGES**

The parties agree hereto on the following conditions governing the billing and payment mechanism for the services rendered under this Agreement

1. The accounting of electricity generated, consumed and injected by the RE Generator under these regulations shall become effective from the date of connectivity of Renewable Energy System with the distribution system under the applicable Regulations.
2. TPDDL shall dispatch the bill for net metering facility to the consumer for respective billing cycle as per prevailing guidelines.
3. The TPDDL shall show, separately, the energy units exported, the energy units imported, the net energy units billed and/or the energy units carried forward, if any, to the consumer in their bill for the respective billing period.
4. If during any billing period, the export of units exceeds the import of units consumed, such surplus units injected by the consumer shall be carried forward to the next billing period as energy credit and shown as energy exported by the consumer for adjustment against the energy consumed in subsequent billing periods within the settlement period.
5. During any billing cycle, the TPDDL shall raise invoice for the net electricity consumption, as per applicable tariff, only after adjusting / netting off of the unadjusted energy credits of the previous billing cycle(s)
6. The surplus energy measured in kilo-watt hour shall be utilized to offset the consumption measured in kilo-watt hour only unless otherwise allowed by the



Commission from time to time. In case the Consumer is billed on kVAh during injection of surplus energy to the grid, the Power Factor shall be assumed equal to unity.

7. The Consumer shall be paid for net energy credits which remain unadjusted at the end of the financial year at the rate of Average Power Purchase Cost (APPC) of the TPDDL for the respective year on provisional basis. Subsequently after true up of the power purchase cost of the TPDDL, by the Commission, adjustment amount between provisional rate and trued up rate of average power purchase cost shall be credited/debited to the account of consumer in the next billing cycle after issuance of the true up order of the relevant year by the Commission.
8. There shall be no deemed generation charges payable to the Renewable Energy Generator or consumer of the premises.
9. The Procedure of billing & accounting for a Consumer shall be as regulated by the Commission through the Regulations, Guidelines, directions thereto as amended from time to time, Tariff Orders and circulars/notifications.
10. The energy generated from Renewable Energy system shall be credited in the monthly electricity bill of each participating consumer (s) as per ratio of procurement from Renewable Energy system in accordance to the list annexed as **Annexure A-4** and same is to be considered as part of this agreement.
11. TPDDL shall adopt procedure for billing and energy accounting under Virtual Net Metering Framework as provided under clause 9 in DERC(Group Net Metering and Virtual Net Metering for Renewable Energy )Guidelines 2019

#### **Article VII. NECESSARY APPROVALS**

The Renewable Energy Generator shall, at all times, be required to obtain the necessary approvals for setting up the Renewable Energy System in accordance with the provisions of the Central Electricity Authority (Technical Standards for Connectivity of Distributed Generation Resources) Regulations, 2013 as amended from time to time and operation of the Renewable Energy System. The consumer shall ensure the requisite approvals are in force during tenure of the current Agreement.

#### **Article VIII. DISPUTE RESOLUTION**

Any dispute in billing shall be settled as per the Delhi Electricity Regulatory Commission (Forum for Redressal of Grievances of the Consumers and Ombudsman) Regulations, 2018.

#### **Article IX. TERM AND TERMINATION**

The term of this agreement shall be coextensive with the life of the Renewable Energy System to be connected which is \_\_\_\_ years, (but which shall in no event extend beyond 25 years).

Otherwise, the agreement may be terminated in the following circumstances and as a consequence, the arrangement under virtual net metering framework will also come to an end:

- (a) Upon request of the consumer to disconnect Renewable Energy System from the Distribution System while retaining TPDDL supply. In such case, all the outstanding dues will be settled in the final bill of CA. No ....., the RE system shall be disconnected from the system, along with the RE meter/Net meter and shall be replaced with the standard consumption meter.
- (b) Upon change of address of the Consumer, if the Consumer elects to leave the current premises and surrender the supply of electricity from TPDDL with which the RE system is installed, he/she shall inform TPDDL in writing, a minimum of 5 days before change in address. The RE system shall be disconnected along with the RE meter, Net meter. The Consumer may, with prior consent obtained from TPDDL in writing, assign the RE system to the next occupant of the Premises, but such new Consumer shall have to enter into a new agreement with TPDDL, re-register the project and complete all the commercial formalities and requisite compliances. . This agreement can, in no way, be assigned or transferred to another person.
- (c) In case the RE system is not being operated in strict compliance with all the applicable laws, regulations, and/or is posing threat to safety of the grid or to other consumers. TPDDL reserves the right to direct the consumer to disconnect the RE system from the distribution system/grid . In case the consumer fails to comply, TPDDL shall disconnect the consumer premises from the distribution system /grid immediately, without prior notice to the consumer, until such time as the RE system is not disconnected. In such cases, the SLD charges shall not be refunded, and TPDDL may initiate appropriate proceedings at the concerned forum for violation of any laws, regulations.
- (d) The eligible consumer can terminate this agreement at any point, after serving 90 days prior notice in writing, on TPDDL. The TPDDL has the right to terminate this agreement, if the consumer breaches any of the term of this agreement and does not remedy the breach within 30 days of receiving written notice from TPDDL of such breach. The consumer agrees that upon termination the RE system shall be disconnected along with the RE meter, Net meter

**Article X. MISCELLANEOUS**

- 1. **SEVERABILITY:** If any provision of this Agreement becomes invalid or unenforceable by the courts of any jurisdiction to which it is subject, such invalidity or unenforceability shall not prejudice the remaining provisions of this agreement, which shall continue in full force and effect.
- 2. **WAIVER OF RIGHTS:** No delay or forbearance by either party in exercising any right or power under this Agreement shall be construed as a waiver of such right or power, nor shall any single or partial exercise of such right or power preclude any further

exercise of such right or power.

3. **AMMENDMENT:** TPDDL reserves its right to carry out any amendment/deletion/addition/modification of any clause of this agreement at its sole discretion.
  
4. **GOVERNING LAW:** (i) The agreement shall be governed by the laws of India and any issue arising therefrom shall be subject to the jurisdiction of the courts at Delhi  
  
(ii) In the event the consumer fails to pay the demand, bill or other charges, expenses sought by TPDDL in relation to the net metering connectivity, meter installation, testing, SLD charges etc., TPDDL shall be well within its rights to resort to disconnection of electricity connection serving the consumer's Premises.
  
5. **NOTICES:** All communications, notices and consents under or in connection with this agreement shall be in writing and be given in person or sent by mail, courier, registered post or personal delivery at the respective address of the parties set out herein below, or at any other revised addresses which may be notified, in writing, against clear acknowledgement by parties.

**Notices shall be addressed as follows:**

If to TPDDL:

Connection Management Group  
CENCARE Building, Lawrance Road, Keshavpuram  
Opposite C-2 Block, Delhi-110034  
Email: .....

If to Consumer:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Email:

6. **INDEMNITY:** The Consumer shall defend, indemnify, save and hold harmless TPDDL, its officers, directors, shareholders, agents, contractors and employees from and against any and all actions, suits, proceedings, judgments, liabilities and losses, damages, costs, demands and third party claims for any loss, damage and expenses, (including reasonable legal costs) including those filed claiming damages for loss to any property or death or bodily injury to any person or praying for any other relief, in connection with or arising out any cause of action connected with the RE system installed under the terms and conditions of this agreement. The Consumer shall also be liable to indemnify any third party in regard

to any damage, loss resulting to third parties due to any action or activity undertaken under this agreement.

**7. COMPLETE AGREEMENT:**

- (a) This Agreement has been executed in the English language only and only the English language shall be the controlling language for interpretation thereof. No translation, if any, of this Agreement into another language shall be of any force or effect in the interpretation of this Agreement or in determination of the intent of either of the Parties hereto.
  
- (b) The Parties have executed two (2) copies of this Agreement and each copy is to be treated as original and primary evidence of the agreement arrived at between the Parties

**IN WITNESS WHEREOF THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED AS OF THE DATE SET FORTH ABOVE.**

<b>FOR TATA POWER DELHI DISTRIBUTION LIMITED</b>	<b>FOR _____</b>
<b>SIGNATURE</b>	<b>SIGNATURE</b>
<b>NAME &amp; DESIGNATION OF AUTHORISED SIGNATORY</b>	<b>NAME OF THE REGISTERED CONSUMER</b>

**IN THE PRESENCE OF:**

<b>WITNESS 1</b>	<b>WITNESS 2</b>
<b>SIGNATURES</b>	<b>SIGNATURES</b>
<b>NAME</b>	<b>NAME</b>
<b>ADDRESS</b>	<b>ADDRESS</b>