



Application for Virtual Net metering

To,
The Nodal officer-Net metering cell
Renewables Department,
BSES Rajdhani Power Ltd.
2nd Floor, C-Block,
BSES Bhawan, Nehru Place,
New Delhi-110092

I/We intend to connect Renewable Energy System, in compliance of Delhi Electricity Regulatory Commission (Group Net Metering and Virtual Net Metering for Renewable Energy) Guidelines, 2019 & Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014.

1	Name of Registered Consumer (Lead / Parent)				
2	Address of Registered Consumer				
3	CA No				
4	E-Mail ID (In Capital letters)				
5	Telephone No. of Consumer	Mobile no:	Whatsapp no.		
6	E-Mail ID of Installer (In Capital letters)				
7	Telephone No. of Installer	Mobile no:	Whatsapp no.		
8	Category (Please tick)	Domestic	Non domestic	Industrial	Any other:
9	BRPL Supply voltage level (Please tick)	230V	415V	11KV& above	
10	Sanctioned load as per latest electricity bill (kW)				
11	Type of Renewable Energy System proposed (Solar, wind, etc.)				
12	Capacity of Renewable Energy System proposed to be connected (kW)				
13	Supply voltage of Renewable Energy System proposed to be connected (Please tick)	230V (1-Phase)	415V (3-Phase)	11 KV & above (3-phase)	
14	Location of Proposed Renewable Energy System (Please tick)	Roof Top		Ground Mounted	
15	Location address of Renewable system				
16	Latitude (N) of site				
17	Longitude (E) of site				
18	Area (sq-mtr)				

Enclosure: Documents as per "Checklist of application form" (annexure -I)

For any query call us on 19123 (Option-9) or E-Mail us on netmetering.brpl@relianceada.com



Application for Virtual Net metering

Place:

Date:

Signature of Participating Consumers with stamp (If any)

FOR OFFICE USE ONLY

Application Form Number:	
Date of application:	

Application for Virtual Net-metering

Sr No	CA No	Sharing Ratio %	Address of each consumer in the list	ID Details of Participating Consumers	Sign. of Participation Consumers
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

I / We hereby request you to provide grid connectivity to the Solar roof top PV system installed or planning to install at premises owned /occupied by me / us. Details supported by necessary evidences are furnished hereunder. I/We declare that the information submitted for Group Net metering / Virtual Net metering are checked and verified to best of my/ our knowledge and belief.

Enclosure: Necessary documents for Applicability as Per Annexure "1"

Place:

Date:

Signature of Participating Consumers with stamp (If any)

For any query call us on 19123 (Option-9) or E-Mail us on netmetering.brpl@relianceada.com



Application for Virtual Net metering

Annexure "1"

<u>Virtual Net Metering</u>		
<u>S.No</u>	<u>Required Documents</u>	<u>Attached (YES /NO)</u>
1	Connection Agreement of Renewable Energy System describing details of all participating consumers	
2	Letter (Preferably on Letter Head) describing the Sharing Ratio and participating list of CA No's	
3	Self-attested Copy of ID proofs (PAN , Aadhaar Card)	
4	Proof of ownership of premises / land where Renewable Energy System is installed	

(On Rs.100/- non judicial stamp paper, duly attested by Notary public)

Virtual Net Metering Model Connection Agreement for Renewable Energy

This Agreement is made and entered into at New Delhi on date _____ between the registered consumers whose name and CA numbers are provided in the below list (“**List of Consumers**”) as first party (hereinafter called as “**Eligible Consumers**”) and BSES Rajdhani Power Ltd. having its registered office at BSES Bhawan, Nehru Place, New Delhi – 110019 (hereinafter called “**Discom**”) as second party to this Agreement.

A solar photovoltaic plant of ___ kWp (“**Photovoltaic System**”) is located at the site of the consumer #1 at the address mentioned in the below list.

Sr No	CA No	Name of Consumer	Sharing Ratio %	Address of each consumer in the list	ID Details of Eligible Consumers
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

1. Eligibility

- 1.1 The Eligible Consumers do hereby confirm that they are aware, in advance, of the standards and conditions the Photovoltaic System has to meet for being integrated into grid/distribution system.
- 1.2 The Eligible Consumers agree that connection of the Photovoltaic System to Discom's distribution system shall be bound by requirements of the state Distribution Code and/or Discom's conditions of service and Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014. The grid shall continue to perform with specified reliability, security and quality as per the Central Electricity Authority (Grid Standard) Regulations 2010 as amended from time to time.
- 1.3 The Eligible Consumers, understanding the benefits of Virtual Net-metering scheme, have agreed and jointly requested with BRPL to install solar meter at the premises situated at wherein the Photovoltaic System has already been installed by the Eligible Consumer#1, and the Eligible Consumers have agreed for their respective share of benefits of solar generation units in their respective electricity bills, the details of which have also been specified in this Agreement.

2. Technical and Interconnection Requirements

- 2.1 The Eligible Consumers agree that they have installed/will install, prior to connection of Photovoltaic System to Discom's distribution system, an isolation device (both automatic and inbuilt within inverter and external manual relays), and agree for the Discom to have access to and operation of this, if required, for repair and maintenance of the distribution system.
- 2.2 The Eligible Consumers agree that in case of a power outage on Discom's system, the Photovoltaic System will shut down, unless special transfer and isolating capabilities have been installed on photovoltaic system.
- 2.3 Technical specification of net meter and renewable energy meter should be in compliance to Discom.
- 2.4 All the equipment connected to distribution system must be compliant with relevant International (IEEE/IEC) or Indian Standards (BIS) and installations of electrical equipment must comply with Indian Electricity Rules, 1956 and Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013.
- 2.5 The Eligible Consumers agree that Discom will specify the interface/inter-connection point and metering point.
- 2.6 The Eligible Consumers agree to adhere to following power quality measures as per International or Indian Standards and/or other such measures provided by Commission/Discom.

- A. Harmonic current: Harmonic current injections from a generating station shall not exceed the limits specified in IEEE519.
- B. Synchronization: Photovoltaic 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 $\pm 5\%$ at point of connection.
- C. Voltage: The voltage-operating window should minimise nuisance tripping and should be under operating range of 80% to 110% of the nominal connected voltage. Beyond a clearing time of 2 seconds, the Photovoltaic System must isolate itself from the grid.
- D. Flicker: Operation of the Photovoltaic System shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC 61000 standards or other equivalent Indian standards, if any.
- E. Frequency: When the Distribution system frequency deviates outside the specified conditions (50.5 Hz on upper side and 47.5 Hz on lower side), the Photovoltaic System must isolate itself from the grid beyond a clearing time of 0.2 seconds.
- F. DC Injection: Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current in to distribution system under any operating conditions.
- G. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 should operate.
- H. Islanding and Disconnection: The Photovoltaic System in the event of voltage or frequency variations must island/disconnect itself within the stipulated Period as per applicable IEC standards/Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013.
- I. Reconnection: The Photovoltaic System shall be equipped with a voltage and frequency sensing and time-delay function to prevent the Photovoltaic system from energising a de-energised circuit and to prevent the Photovoltaic system from reconnecting with electricity system unless voltage and frequency is within the prescribed limits and are stable for at least sixty seconds.
- J. Overload and Overheat: The inverter should have the facility to automatically switch off in case of overload or over-heating and should restart when normal conditions are restored.
- K. Paralleling device: Paralleling device of Photovoltaic System shall be capable of withstanding 220% of the nominal voltage at the interconnection point.

2.7 As per Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013, measurement of Harmonic current injection, Direct Current injection and flicker shall be done with calibrated

meters before the Commissioning of the project and once in a year in presence of the parties concerned. It shall be the responsibility of the eligible consumer to ensure that the annual measurement of Harmonic Current Injection, Direct Current injection and flicker, be done every year within 30 days from the commencement of respective year and shall submit the report thereto within 7 days from the date of such measurement.

- 2.8 The Eligible Consumers agree to furnish all the data such as voltage, frequency, and breaker, isolator position in his system, as and when required by the Discom. The Eligible Consumers shall also provide facilities for online transfer of the real time operational data.
- 2.9 The Eligible Consumers shall obtain requisite approvals, in accordance with the provisions of the Central Electricity Authority (Technical Standards for Connectivity of Distributed Generation Resources) Regulations, 2013 for commissioning of the Renewable Energy System, and furnish copies of approvals to the Distribution Licensee.
- 2.10 The Eligible Consumers do hereby agree that BRPL may keep the entire information regarding application and registration of the Renewable Energy System on its website or web portal for transparency and convenience.

3. Safety

- 3.1 The Eligible Consumers shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations 2010.
- 3.2 The Eligible Consumers agree that the design, installation, maintenance and operation of the Photovoltaic System shall be performed in a manner conducive to the safety of the Photovoltaic System as well as the Discom's distribution system.
- 3.3 Due to Discom's obligation to maintain a safe and reliable distribution system, the Eligible Consumers agree that if it is determined by Discom that eligible consumer's Photovoltaic System either causes damage to and/or produces adverse effects affecting other distribution systems' consumers or Discom's assets, the Eligible Consumers will have to disconnect photovoltaic system immediately from the distribution system upon direction from the Discom and correct the problem at its own expense prior to re connection.
- 3.4 The Eligible Consumers agree that any change/alteration/ modification/addition of new capacity in the Photovoltaic System post Netmetering shall be carried out only after securing prior permission from Discom, which shall be issued post receipt of necessary Test certificate(s) and other documents as notified by DISCOM time to time.

4. Clearances and Approvals

The Eligible Consumers agree to attain all the necessary approvals and clearances (environmental and grid connected related) before connecting the

Photovoltaic System to the distribution system.

5. Access and Disconnection

5.1 Discom shall have access to metering equipment and disconnecting means of Photovoltaic System, both automatic and manual, at all times.

5.2 In emergency or outage situation, where there is no access to a disconnecting means, both automatic and manual, such as a switch or breaker, Discom may disconnect service to the premise and in such scenario, the eligible consumer shall not have any right to object or to claim any sum from BRPL citing such immediate disconnection.

6. Liabilities

6.1 Eligible Consumers and Discom will indemnify each other for damages or adverse effects from either party's negligence or intentional misconduct in the connection and operation of Photovoltaic System or Discom's distribution system.

6.2 Discom and Eligible Consumers will not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or loss of goodwill, or for indirect, consequential, incidental or special damages, including, but not limited to, punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, or otherwise.

6.3 Discom shall not be liable for delivery or realization by eligible consumer for any fiscal or other incentive provided by the central & state government.

6.4 Discom disclaim all warranty/guaranty/oral discussions as to the performance of system/results/outputs benefits etc. and discoms shall not be responsible for any claim associated with/citing the installation/performance of the Photovoltaic System.

7. Commercial Settlement

7.1 All the commercial settlement under this agreement shall follow the Netmetering regulations of Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014 and subsequent amendments.

8. Conditions For System Connectivity

8.1 The parties shall abide by the Central Electricity Regulatory Commission Regulations in respect of procedure of grant of Connectivity. The consumer shall submit the following documents to discom for the grant of connectivity:

- Synchronization Circuit Details

- Safety Report
- Protection Circuit Details
- Test Certificates of System
- Schematic diagram of Renewable Energy system

9. Connection Costs

9.1 The Eligible Consumers shall bear all costs related to setting up of the Photovoltaic System including metering and interconnection costs as per estimate by BRPL. The Eligible Consumers agree to pay the actual cost of modifications and upgrades to the distribution facilities required to connect the Photovoltaic System in case it is required.

9.2 Cost for interconnection equipment including the isolators, meters etc. are also to be borne by the Eligible consumers.

10. Termination

10.1 The term of this Agreement shall be the life of a typical solar photovoltaic power plant, which is 25 years or till the validity of license with BRPL, whichever is earlier, unless this Agreement is otherwise terminated as per the provisions of this clause.

10.2 Discom has the right to terminate Agreement on 30 days prior written notice, if the Eligible Consumer/s breaches term of this Agreement and does not remedy the breach within 30 days of receiving written notice from Discom of the breach. Whereas it is clarified that in case of termination notice to be issued by Discom, the same shall be issued to Lead Consumer, appointed by eligible consumers.

10.3 That during the validity of this agreement the consumers shall be liable to ensure the continuous connection of solar photovoltaic power plant with DISCOM Grid. In case of any disconnection of plant from DISCOM Network, the eligible consumers shall be under a mandate to intimate the said disconnection to DISCOM in at least 3 days in advance, except the situation beyond control. Whereas all the eventuality of disconnections, where the same could not be informed in advance, the same shall be communicated within 2 days of such disconnection, without fail and shall rectify the default causing such disconnection. Further in case of failure from the side of consumer in rectifying the said default within 3 days, the same shall be termed as breach of VNM Model Connection Agreement and BRPL shall be having all rights, as available, given the breach committed by eligible consumer/s including the termination of this agreement and necessary post termination obligations shall follow.

10.4 The Eligible Consumers agree that upon termination of this Agreement, they must disconnect the photovoltaic system from Discom's distribution system in a timely manner and to Discom's satisfaction.

11. Change of Sharing Ratio

11.1 The Eligible Consumers shall have the right to change the Sharing Ratio provided in the List of Consumers once every financial year by sending notice of at least 2 months to the Discom and submitting a revised List of Consumers.

11.2 The Eligible Consumers shall submit a Virtual Net Metering application form as applicable at the time of such proposed change in the Sharing Ratio and amendment of the List of Consumers.

11.3 Eligible Consumers hereby irrevocably give[s] the right to Lead Consumer to apply on [its/ their] behalf for such change of Sharing Ratio and, if applicable, introduction of a new Eligible Consumer to this Agreement and submission of the List of Consumers. Lead Consumer may sign on behalf of all eligible consumers any and all documents required by Discom in this regard.

12. That the consumers, for setting up/installation of solar photovoltaic power plant and during the tenure of the installation of the same, shall be liable to take all permissions/permits/approvals as required under the provisions of relevant laws.

13. That upon setting up and during the period of installation of solar photovoltaic power plant, the consumer/s shall jointly and severally, keep BRPL/its employees/directors/officers/associates indemnified from all cost consequences, liabilities, penalties, claim of damages/compensation etc from any person/agency/land owning agency/court or any other judicial-quasi-judicial authority citing the establishment and/or operation & maintenance of solar photovoltaic power plant.

14. Lead Consumer

That at the time of execution of this agreement, the eligible consumers shall appoint/nominate one of the eligible consumers as lead consumer. That for all communications issued by DISCOM, DISCOM shall be free to communicate with lead consumer and not to every consumer. It shall be the responsibility of the lead consumer to communicate with the other eligible consumers and the service of communication by DISCOM to lead consumer shall be termed as service to all eligible consumers in all respect.

15. Governing Law and Jurisdiction

This Agreement shall be governed by the laws of India, and courts in Delhi shall have exclusive jurisdiction to rule on any matters or disputes arising from or relating to

anything contained within this Agreement.

16. This agreement shall be governed by the and Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014 read with DERC (Group Net Metering and Virtual Net Metering for renewable energy) Guidelines, 2019 and any other order/directions in related to establishment/maintaining/functioning of solar photovoltaic power plant. Further in case of any change in the above laws, the eligible consumers shall be liable to comply the same.

In the witness, where of Mr./ Ms. _____ and Mr./ Ms. _____ for and on behalf of the Eligible Consumers and Mr/ Ms. _____ for and on behalf of BSES Rajdhani Power Limited agree to this agreement.

Date :

S. No.	Name of Eligible Consumers	Signature of Eligible Consumers
1		
2		
3		
4		
5		
6		
7		

8		
9		
10		

Name &Signature of Head (Net-metering):

BSES Rajdhani Power Limited