

**REQUIREMENT OF DOCUMENTS FOR NET METER CONNECTIVITY OF ROOFTOP SOLAR SYSTEM**  
**CONNECTION FOR LMV-1 & LMV-5 TARIFF CATEGORY**

<b>Sl. No.</b>	<b>Documentation Requirement</b>	<b>Submitted</b>
1	Net Metering Application Form (Annexure-I)	
2	Net Meter Registration Form (Annexure-III)	
3	Aadhaar card & Pan Card of the consumer	
4	Net metering Inter Connection Agreement Copy on Rs. 100/- non-judicial stamp paper of Uttar Pradesh, duly attested by Notary public of U.P. & signed by registered consumer on each page. (link)	
5	Applicant photograph	
6	Photocopy of Latest Paid Electricity bill (Net meter Applied load shall not be more than Contractual Load)	
7	Bank Passbook Photocopy for Online Application on UPNEDA Portal for CFA based project only.	
8	Single Line Diagram (SLD) showing all equipment (Module (no. of Modules per string, No. of Strings etc.), Inverter (type 1 Phase /3 Phase), ACDB, DCDB, Distribution Busbar Box/MCCB Box, Isolation device AC & DC Cable sizing, LA , LA Height etc.) rating & quantity, Plant Capacity DC & AC both.	
9	Plant Layout with LA height (mechanical drawing, Angle, Structure Details, wind calculation, earthing layout, LA height etc)	
10	Solar PV Module Technical Data Sheet	
11	Solar PV Module IEC Certificates -IEC 61215,61730,61853,61701	
12	Inverter Technical Data Sheet	
13	Inverter IEC Certificates IEC 61727,62116,62109-1&2	
14	Equipment Earthing Test report (AC component, DC Component, LA, Metering etc.)	
15	DCR declaration (As per UPNEDA Format) from RTS Installer along with PV Module manufacturer's DCR certificates for CFA based RTS project only.	
16	Joint Commissioning Report as per UPNEDA Format.	
17	Project Completion Certificate for Non CFA Based Project	
18	Coloured Site Photograph before RTS Plant Installation	
19	Directorate of Electrical Safety Department, U.P. Govt. (DoES) N.O.C. for above 10kW Net Metering Application/Load	
20	If Net meter connection load is greater than 2 MW than Hon'ble UPERC permission letter is also required for grid connectivity with NPCL as per UPERC RSPV Regulation 2019	
21	In case DG is also available & connected, then Protection Scheme & detail of connecting system (LT Panel, HT panel, Transformer etc) to check for back feeding safety precautions prescribed by the CEA regulations 2013 through notification dated 30th September 2013. DG and associated equipment shall be designed so that the failure of any single device or component shall not potentially compromise the safety and reliability of the electricity system.	
22	Real time Monitoring (Automation) details required if above 50kW capacity. The MODBUS Protocol MFM provided by the RTS Installer in the ACDB panel that shall provide Real Time Solar generation data on IEC 60870-5-104 protocol (MODBUS to IEC 60870-5- 104 converter & Modem also to be installed by the solar vendor) over IPsec/L2TP up to NPCL M2M Manager. "Applicant shall have to provide necessary facilities for real time monitoring/communication & storage of data and other parameters as stipulated in the CEA (Technical standard for connectivity of Distribution Generation resources) Regulations, 2013 notification dated 30.09.2013"	

Note: All Documents required in Soft & Hard Copy Format

**Annexure-I**

Application Form Number .....

**APPLICATION FOR INTENT TO SEEK CONNECTIVITY OF  
ROOFTOP SOLAR PV SYSTEM**

1.	Name Full Address of Consumer / Applicant		
2.	Consumer No. (CA. No.) (Owner of the premises)		
3.	Category (Domestic / Non Domestic/Commercial etc. specify) (Owner of the premises)		
4.	Telephone No	Res:	Mob:
5.	E-mail address		
6.	Sanctioned Load		
7.	Capacity of Rooftop Solar PV System proposed to be connected		
8.	Whether the Consumer is under ToD billing system (Owner of the premises)	Yes/No	
9.	Whether the Consumer or third party owner shall avail accelerated depreciation benefits on the Rooftop Solar PV system	Yes/No	
10.	Type of Rooftop Solar PV System proposed (Gross/Net metering)		
11.	Location and address of Proposed Rooftop Solar PV System (roof top, ground mounted, any other – specify)		
12.	Preferred mode of Communication (Post/ By Hand/ Electronic etc. – specify)		

Place:

Signature of Eligible Consumer/Third Party owner

**Annexure-III**

**APPLICATION FOR REGISTRATION OF THE SCHEME FOR  
ROOFTOP SOLAR PV SYSTEM**

1	Name	
2	Address for Communication	
3	Consumer No.	
4	Telephone No./Mobile No.	
5	E-mail	
6	Application No.	
7	Serial No. of receipt of Application	
8	Contract Demand of Consumer	
9	Capacity of Rooftop Solar PV System to be connected(Capacity not to exceed as approved by the Distribution Licensee and as per RSPV Regulations 2019)	
10	Technical specifications and other particulars of Renewable Panel, Grid Tied Inverter and Interlocking System etc. proposed to be installed – whether attached (Yes/No)	
11	Technical specifications and other particulars of Renewable energy meter to be installed – whether attached (Yes/No)	
12	Whether Consumer opts to purchase meter himself or from Distribution Licensee	
13	Drawings for installing the Rooftop Solar PV System – whether attached (Yes/No)	
14	Proposed date of completion of the installation	

Place:

Signature of Eligible Consumer/ Third Party Owner

Agreement to be print on Rs. 100 Non Judicial Stamp paper of Uttar Pradesh  
(Notarized) (2sets)

**Inter connection agreement (Net Metering Arrangement)**

This Agreement is made and entered into at **Greater Noida, Uttar Pradesh** On the day (date,Month & Year) .....**20**..... between

The Eligible Consumer (by the name of) **Mr/Mrs./M/s**

.....  
..... owning or leasing  
or having commerce rights to the premises at (address)  
.....  
.....  
.....  
....., **Greater Noida, Uttarpradesh-2013**..... as first party

AND

Distribution Licensee (herein after called as Licensee) and represented by **Vice President-Operations** and having its registered office at **Electric Substation, Knowledge Park-IV, Greater Noida, Gautam Buddha Nagar, Uttarpradesh-201310** as second party of the agreement

And whereas, **Noida Power Company Limited** agrees to provide grid connectivity to the eligible consumer for injection of the electricity generated from his RSPV plant of capacity ..... **kW** into the power system of Licensee and as per conditions of this agreement and RSPV Regulations/orders issued by the Uttar Pradesh Electricity Regulatory Commission.

Both the parties hereby agree to as follows:

**1. Eligibility**

1.1. Eligibility for Net-Metering has been specified in the UPERC (Rooftop Solar PV Grid Interactive System Gross / Net Metering) Regulations, 2019 (hereinafter referred to as RSPV Regulations, 2019). Eligible consumer or third party owner is required to be aware, in advance, of the standards and conditions his system has to meet for being integrated into grid/distribution system.

**2. Technical and Interconnection Requirements**

2.1. The eligible consumer agrees that his Rooftop Solar PV generation plant Net Metering/Net Billing system will conform to the standards and requirements specified in these regulations and in the following Regulations and codes as amended from time to time.

- i. Central Electricity Authority (Technical Standards for connectivity of the Distributed Generating Resources) Regulations, 2013 and subsequent amendments thereof;
- ii. Central Electricity Authority (Installation and Operation of Meters) Regulation 2006 and subsequent amendments thereof;
- iii. Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010 and subsequent amendments thereof;
- iv. UPERC Electricity Grid Code, 2007 and subsequent amendments thereof;

- v. UPERC (Grant of Connectivity to intra-State Transmission System) Regulations, 2010 and subsequent amendments thereof to the extent specified in the UPERC RSPV Regulations 2019;
  - vi. UPERC Supply Code Regulations 2005 and subsequent amendments thereof;
  - vii. Any other provisions applicable to the electricity consumer of the Distribution Licensee.
- 2.2. Eligible consumer agrees that he has installed or will install, prior to connection of Photovoltaic system to Licensee's distribution system, an isolation device (both automatic and inbuilt within inverter and external manual relays) and agrees for the Licensee to have access to and operation of this, if required and for repair & maintenance of the distribution system.
- 2.3. Eligible consumer agrees that in case of a power outage on Licensee's system, photovoltaic system will disconnect/isolate automatically and his plant will not inject power into Licensee's distribution system.
- 2.4. All the equipment connected to distribution system shall be compliant with relevant International (IEEE/IEC) or Indian standards (BIS) and installations of electrical equipment must comply with Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010.
- 2.5. Eligible consumer agrees that Licensee will specify the interface/interconnection point and metering point.
- 2.6. Eligible consumer and Licensee agree to comply with the relevant CEA and UPERC Regulations in respect of operation and maintenance of the plant, drawing and diagrams, site responsibility schedule, harmonics, synchronization, voltage, frequency, flicker etc.
- 2.7. Due to Licensee's obligation to maintain a safe and reliable distribution system, Eligible consumer agrees that if it is determined by the Licensee that eligible consumer's photovoltaic system either causes damage to and/or produces adverse effects affecting other consumers or Licensee's assets, Eligible consumer will have to disconnect photovoltaic system immediately from the distribution system upon direction from the Licensee and correct the problem at his own expense prior to a reconnection.

### **3. Clearances and Approvals**

- 3.1. The Eligible consumer agrees to obtain all the necessary approvals and clearances (environmental and grid connection related) before connecting the photovoltaic system to the distribution system.

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

- 4.1. Licensee shall have access to metering equipment and disconnecting means of the 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, Licensee may disconnect service to the premises of the eligible consumer.

### **5. Liabilities**

- 5.1. Eligible consumer and Licensee 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 Licensee's distribution system.
- 5.2. Licensee and eligible consumer 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.
- 5.3. Licensee shall not be liable for delivery or realization by eligible consumer for any fiscal or other incentive provided by the Central/State Government beyond the scope specified by the Commission in its relevant Order
- 5.4. The Licensee may consider the quantum of electricity generation from the Rooftop Solar PV system towards RPO.

### **6. Commercial Settlement**

- 6.1. All the commercial settlement under this agreement shall follow the RSPV Regulations, 2019 issued by the UPERC.

### **7. Connection Costs**

7.1. The Eligible consumer shall bear all costs related to setting up of photovoltaic system including metering and interconnection costs. The Eligible consumer agrees to pay the actual cost of modifications and upgrades to the service line required to connect photovoltaic system to the grid in case it is required.

**8. Termination**

8.1. The Eligible consumer can terminate agreement at any time by providing Licensee with 90 days prior notice.

8.2. Licensee has the right to terminate Agreement on 30 days prior written notice, if Eligible consumer commits breach of any of the term of this Agreement and does not remedy the breach within 30 days of receiving written notice from Licensee of the breach.

8.3. Eligible consumer shall upon termination of this Agreement, disconnect the photovoltaic system from Licensee’s distribution system in a timely manner and to Licensee’s satisfaction.

In witness, whereof, Mr. .... for and on behalf of Eligible Consumer and Mr. **Vice President-Operations** for and on behalf of Noida Power Company Limited sign this agreement in two originals.

Signature

Eligible Consumer

Name:.....

Address:

.....

.....

**Greater Noida, Uttarpradesh-2013.....**

**Consumer No.: 200.....**

Signature

**Distribution Licensee**

**Name: Noida Power Company Limited**

Address:

**Electric Substation, Knowledge Park-IV,**

**Greater Noida, Gautam Buddha Nagar,**

**Uttarpradesh-201310**