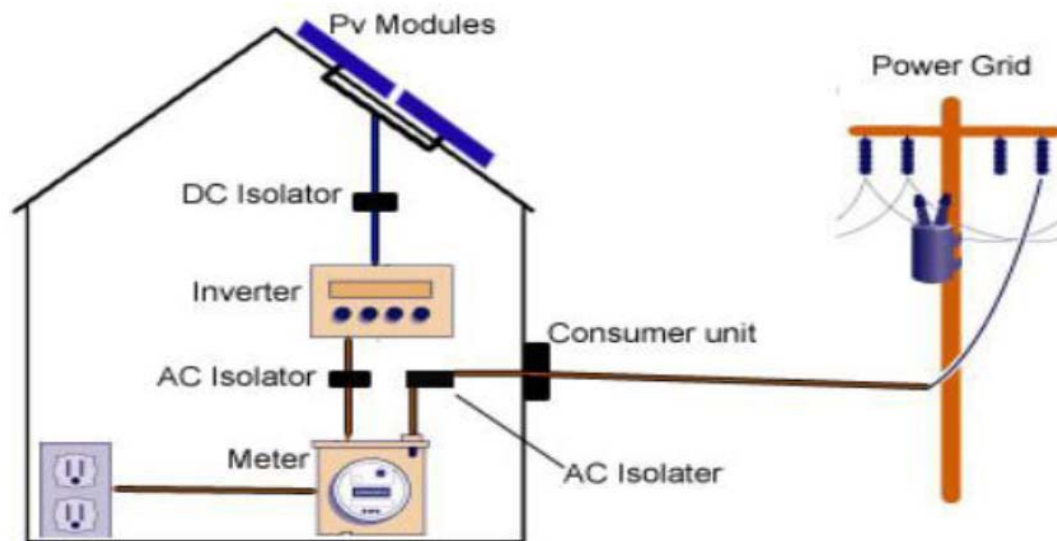


Consumer Guidelines for Availing Grid Connectivity of Solar Roof Top Photo-Voltaic System (On Net Metering Basis) – Haryana Discoms

Introduction:-

In the Net Metering arrangement a rooftop solar system is installed at consumer premises, which delivers solar power simultaneously with the power supplied by the Discom. In this system, the power generated through solar roof top arrangement offsets the power imported by the consumer from the Discom. Accordingly, consumer receives a net import/export bill from the Discom as per the net consumption.

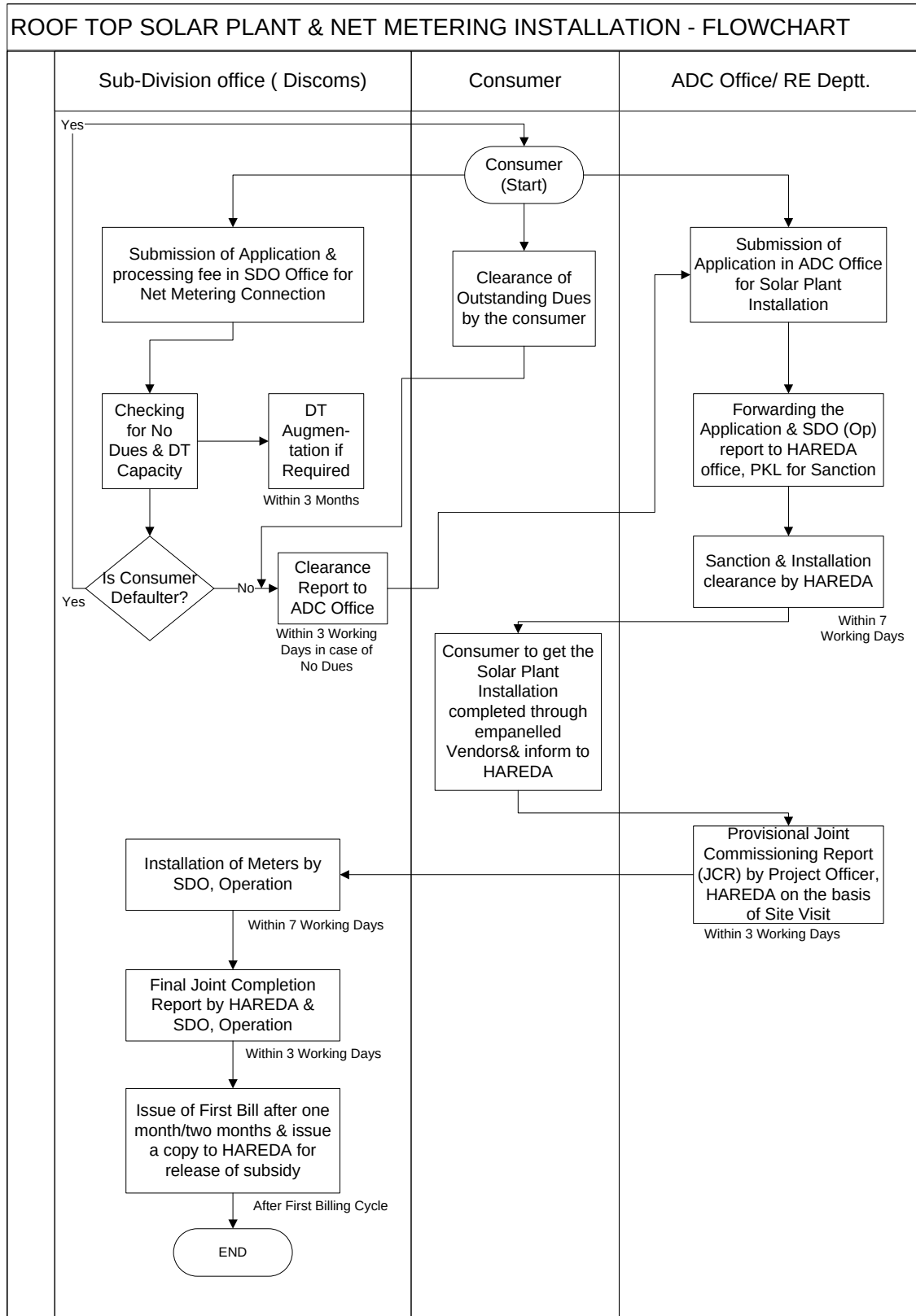
An Indicative Sketch of the Net Metering is presented below:-



Applicability:

- All consumers of the Nigam can participate in the solar rooftop net metering arrangement.
- The maximum rooftop solar system capacity to be installed at any eligible consumer premises shall not exceed his **connected/sanctioned load** in case of **Low Tension connection** and **contract demand** in case of **High Tension connection** provided that the maximum installed capacity shall not exceed 1MWp for a single eligible consumer.

Connection Flowchart:-



Metering Arrangement: There are 2 meters in the configuration:-

- Solar Energy meter to measure the Solar power generated
- Bi directional energy meter to measure the export and import of energy from/to the consumer premises.

Billing and Payment:

The consumer shall receive a net import/export bill indicating either net export to the grid or net import from the grid.

Energy Accounting:

- Electricity generated from a rooftop solar system shall be cumulatively capped at 90% of the electricity consumption by the consumer at the end of settlement period which shall be the relevant financial year.
- The carry forward of excess energy generation shall be allowed from one billing cycle to the next billing cycle up to the end of the same financial year. Any excess generation (above 90%) at the end of the financial year shall not be offset against the consumer's consumption. There shall be no carry forward to the next financial year.
- Incentive at the rate of 25 Paise per unit shall be given during the FY 2015-16 on the solar power generated to the extent the same is admissible for off-setting consumer's consumption. The incentive payable shall be given by way of adjustment in the energy bill in each billing cycle.

Annexure - I

UTTAR/DAKSHIN HARYANA BIJLI VITRAN NIGAM LTD

**APPLICATION FORM FOR INSTALLATION OF ROOFTOP SOLAR
PHOTOVOLTAIC SYSTEM UNDER NET METERING ARRANGEMENT**

(To be filled up by the applicant in Block letters in ink)

1	Applicant's Name	
2	Father's name / Husband's Name.	
3	Full address of the premises at which solar photovoltaic system is to be installed.	
4	Correspondence Address of the applicant (Residential) along with Telephone No and E-mail address	
5	Capacity of rooftop solar photovoltaic system installed / to be installed at the consumer premises (in kWp)	
6	Account No. (of connection where Net Metering is to be installed.	

Date: _____

Signature of applicant

List of Documents to be attached with Application form

1. General power of attorney in favor of signatory in case of joint ownership & partnership firms, Certified true copy of the resolution authorizing the signatory to deal with the UHBVN / DHBVNL, passed by the Board of the Directors in case of companies (as applicable).

ACKNOWLEDGEMENT

Received an application from Sh..... for installation of rooftop solar photovoltaic system of capacity..... kWp as per detail below.

Date	Applicant's Name	Application Number	Solar photovoltaic system of capacity

Received an amount of Rupees _____ as processing fees vide BA16 No. _____ Dated _____

Sign:- _____

Sub-Division Officer (Operation)

Sub-Division _____

UTTAR/DAKSHIN HARYANA BIJLI VITRAN NIGAM LTD

For office use only

Name of the Sub-Division _____

Application No. _____

Date of Receipt _____

PAYMENT MADE WITH APPLICATION

Accepted on behalf of the Uttar /Dakshin Haryana Bijli Vitran Nigam Ltd. an application for installation of rooftop solar photovoltaic system of _____kWp capacity at _____ voltage.

Cashier to accept charges on account of the following: -

Date_____

Signature

Sr. No.	Item	Amount (in Rs)
1	Application processing fee	

Received Rs_____ (Rupees_____)

Vide Receipt No._____Dated_____

Name _____Designation_____Signature_____

FEASIBILITY REPORT

Certified that I have personally verified the premises of the applicant at which the solar photovoltaic system is to be installed. The details of verification are as below:

Sr No	Particulars	Result
1	Name of 11kV feeder	
2	Rating of Distribution Transformer (in kVA)	
3	Capacity of rooftop solar photovoltaic system installed / to be installed at the consumer premises (in kWp)	
4	Total Capacity of rooftop solar photovoltaic systems already connected to the Distribution Transformer in kWp	

Note: In case of solar power generation at 11 kV or above voltage, the Distribution Transformer may be read as Power Transformer.

Date_____

Sign:- _____

Sub-Division Officer (Operation)

Sub Division:- _____

No Dues Certificate

Certified that nothing is due against this applicant or the premises.

Name _____ Designation_____ Signature _____

Date _____

Sign:- _____

Sub-Division Officer (Operation)

Sub Division:- _____

AUTHORIZATION FOR NET METERING CONNECTION
For Office Use Only

Accepted and Sanctioned on behalf of the Uttar/Dakshin Haryana Bijli Vitran Nigam Ltd. the installation of rooftop solar photovoltaic system of _____ kWp at _____ voltage at the consumer premises under net metering connection.

Dated _____

SDO 'OP'

The following charges / additional charges, documents and equipment for release of net metering connection as per site verification be accepted.

(A) Charges

Sr No.	Item	Amount (in Rs)
1	Meter Security (if applicable)	
2	Meter testing (if applicable)	
3	Any Other item	
	Total	

(B) Documents & Equipment

- (i) Provisional Commissioning Report issued by Renewable Energy Department
- (ii) Energy Meter (if applicable)
- (iii) Net metering connection Agreement

Dated _____

SDO 'OP'

Received Rs. _____ (Rupees _____)
Vide Receipt No. - _____ Dated: _____
Name: _____ Designation _____ Signature _____

Received required documents and equipment
Name: _____ Designation _____ Signature _____

The Account Number allotted to the applicant is _____
The net metering connection order number is _____
Name: _____ Signature _____ Date _____

Net Metering Connection Agreement
(strike out which is not applicable)

This Agreement is made and entered into at (location) _____
on this (date) _____ day of (month) _____ (year) _____ between

The Eligible Consumer (Name) _____ residing at
(address) _____ as first party

AND

Distribution Licensee UHBVN/DHBVN (herein after called as Licensee) and
having its registered office at (address) Vidyut Sadan, C-16, Sector-6,
Panchkula / Vidyut nagar, Hissar as second party of the agreement.

Whereas, the eligible consumer has taken the responsibility to set up or
facilitate the requisite Photovoltaic system and injection system into the
Licensee's grid.

And whereas, the Licensee has verified the application and agrees to
benefit the eligible consumer for the electricity generated and as per
conditions of this agreement and net-metering regulations.

Both the parties hereby agree as follows:

1. Eligibility

- 1.1 Eligible consumer agrees that the standards and conditions of his
Photovoltaic system meet the norms for being integrated into
grid/distribution system and that he shall maintain the system
accordingly for the duration of this agreement.
 - 1.2 Eligible consumer agrees that for connection of his Photovoltaic
system to Licensee's distribution system, he shall be bound by
requirements of state Distribution Code and/or Licensee's
conditions of service and such connection shall not affect the
performance of the grid with specified reliability, security and quality
as per the Central Electricity Authority (Grid Standard) Regulations
2010 as amended from time to time.
-

2. Technical and Interconnection Requirements

- 2.1 Eligible consumer agrees that the interconnection of the rooftop solar system with the network of the licensee shall be made as per the technical standards for connectivity of distributed generation resources specified under the Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013 and subsequent amendments thereof.
- 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, for repair and maintenance of the distribution system.
- 2.3 Eligible consumer agrees that in case of a power outage on Licensee's system, photovoltaic system will shut down, unless special transfer and isolating capabilities have been installed on photovoltaic system.
- 2.4 Eligible consumer agrees that Licensee will specify the interface/inter-connection point and metering point.
- 2.5 Eligible consumer agrees to furnish all the data such as voltage, frequency, breaker, isolator position in his system, as and when required by the Licensee. He may also try to provide facilities for online transfer of the real time operational data.

3. Safety

- 3.1 Eligible consumer shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations 2010.
 - 3.2 Eligible consumer agrees that the design, installation, maintenance and operation of the photovoltaic system are performed in a manner conducive to the safety of the photovoltaic system as well as the Licensee's distribution system.
 - 3.3 Due to Licensee's obligation to maintain a safe and reliable distribution system, eligible consumer agrees that if it is determined by Licensee that eligible consumer's photovoltaic system either causes damage to and/or produces adverse effects affecting other distribution systems' 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.

4. Clearances and Approvals

The eligible consumer agrees to obtain 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 Licensee shall have access to metering equipment and disconnecting devices of photovoltaic system, both automatic and manual, at all times.
- 5.2 In emergency or outage situation, where there is no access to the disconnecting devices, both automatic and manual, such as a switch or breaker, Licensee may disconnect service to the premises.

6. Liabilities

- 6.1 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.
- 6.2 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.
- 6.3 Licensee shall not be liable for delivery or realization by eligible consumer for any fiscal or other incentive provided by the central government.

7. Commercial Settlement

All the commercial settlement under this agreement shall follow the Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulations, 2014.

8. Connection Costs

- 8.1 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 distribution facilities required to connect photovoltaic system in case it is required.
- 8.2 Costs of all interconnection equipment including the isolators, and meters. are also to be borne by the eligible consumer.

9. Termination

- 9.1 The eligible consumer can terminate the agreement at any time by giving 30 days prior written notice to the Licensee.
- 9.2. Licensee may terminate the agreement with 30 days prior written notice, if eligible consumer breaches any term of this agreement and does not remedy the breach within 30 days of receiving written notice from the Licensee of the breach.
- 9.3 Eligible consumer, upon termination of this agreement, shall disconnect forthwith the photovoltaic system from Licensee's distribution system.

Eligible Consumer

Name:-

Address:-

SDO (Op)

Sub- Division - _____

UHBVN/DHBVN

Witness:-

1. On behalf of Consumer

Name:-

Sign:-
