

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Instruction No. 3/2016

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN,

Memo No. Ch- 3/SE/Comml./R-17/67/2006/Vol-2 Dated: 18/3/2016

Subject: The Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulation, 2014- Implementation procedure thereof.

Please refer to Sales Instruction No. 22/2015 issued vide this office memo No. Ch-22/SE/Comml./R-17/67/2006/Vol-I dated 11/12/2015 wherein the detailed procedures for implementation of HERC Regulation No. HERC/31/2014 on '**Rooftop Solar Grid Interactive System based on Net Metering**', was circulated for compliance. In the ibid Sales Instruction, the list of companies/ firms temporarily empanelled for carrying out the work under DHBVN was provided at Annexure-VI.

The matter has been reviewed by the Management and it has now been decided that the firms which have been empanelled by **Ministry of New and Renewable Energy (MNRE)** (list available on its website www.mnre.gov.in) and to whom empanelment certificate thereof has been issued by MNRE for the purpose of installation of grid connected Roof Top Solar power plant vide various empanelment lists, circulated from time to time shall only be authorized to execute the work of installation of **Rooftop Solar Grid Interactive System based on Net Metering** under DHBVN. The earlier list circulated vide Annexure-VI of Sales Instruction No. 22/2015 may be treated as withdrawn.

Sales Instruction No. 22/2015 may be amended to the above extent only.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**CE/Commercial
DHBVN, Hisar.**

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Instruction No.- 8/2016

From

The CE/Commercial,
DHBVN, Hisar

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub Office in DHBVN.

Memo No. Ch- 8/SE/Comml./R-17/67/2006/Vol-2 Dated: 15/7/2016

Sub: Issues relating to implementation of 'The Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulation, 2014'.

A number of queries are being received from field offices, HAREDA and empanelled firms relating to metering of Solar Energy produced for installation of the Rooftop Solar Grid Interactive System based on Net Metering Regulation. All the issues raised /posed by the above agencies and clarifications thereof are recapitulated as under:-

1. What type of solar meter is to be provided when installed solar generation is less than 50 KWp and the consumer is connected to the Nigam on HT?

In such cases, the solar metering may be done on LT supply.

2. What type of solar meter is to be provided when installed solar generation is more than 50 KWp and the consumer is connected to the Nigam on HT?

In this context, it is clarified that since the solar generation of PV plants under net metering scheme shall be on LT supply and in case the metering of solar generation is to be done on HT being an existing HT consumer, then two DTs shall be additionally required for stepping up the generation to HT for solar metering purposes and grid connectivity and stepping it down thereafter for self usage / export to the grid etc.

In case the above arrangement is resorted to, the same shall lead to unnecessary stepping up of voltage and then stepping it down for utilization by the consumer thus increasing both the cost as well as system inefficiency. Therefore, solar metering may be done on LT and, if required, CTs of rating beyond that used in Nigam may also be allowed since in any case the maximum capacity of the solar PV plant has been limited to 1MWp.

3. What should be the specification of solar meter to be provided?

The net meters i.e. bi-directional meters shall be confirming to Class 0.5S of accuracy for LT CT and HT CT meters and class 1.0 of accuracy for whole current meters. The solar meter shall be the normal whole current/LT-CT meter as is being installed on Nigam consumer, they also being of 1.0/0.5S class of accuracy provided further that LT CT meters shall invariably be provided as solar meters irrespective of installed capacity of solar generation under net metering scheme for consumers having sanctioned load more than 20 KW so that class of accuracy of both the meters are matching to each other..

The solar meters alongwith CT's shall be provided by the Consumer/ Nigam as per approved make and specification of the Nigam, which shall be installed after due testing from NABL accredited labs but after proper sealing by M&P wing.

It has further been decided that:-

- i) The grid interactive rooftop solar system may be installed with or without battery backup. Provided that where the rooftop solar system is installed with battery backup (full load backup / partial load backup), the inverter shall have separate backup wiring to prevent the battery / decentralized generation power to flow into the grid in the absence of grid supply and manual isolation switch shall also be provided.
- ii) Total cumulative capacity installed in the sub division (alongwith consumer-wise details), shall be compiled by SE/OP monthly & intimated to CE/HPPC on monthly basis showing total capacity installed and total units generated and total energy consumed by the existing consumers from the rooftop solar system under net metering arrangement.
- iii) CE/HPPC will collect the utility wise information and take action for solar RPO obligation.

All the related instructions in this regard are amended to the above extent.

This sales instructions does not infringe (directly or indirectly) any part of the tariff order issued by the Commission

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**CE/Commercial
DHBVN, Hisar.**

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D-18/2016

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN.

Memo No. Ch-18/SE/Comml./R-16/Loose-67/06/Vol-3

Dated: 1/8/2016

Subject:- The Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulation, 2014- Implementation procedure thereof.

HERC has notified regulation No. HERC/31/2014 on '**Rooftop Solar Grid Interactive System based on Net Metering**' on 25.11.2014 which was duly notified by Sales Circular No. D-3/2015 dated 15/1/2015. Subsequently, 1st amendment to the ibid regulation was notified by HERC on 9.06.2015 which was duly circulated vide Sales Circular No. D-24/2015 dated 24/7/2015. Further, the basis of documents of PSPCL and MNRE and as per guidelines issued by HERC vide Regulation on the matter, the procedures for processing of application for installation of Rooftop Solar Grid Interactive System based and on Net Metering, commission of Net Metering Arrangement and billing thereof was finalized and circulated thereof vide Sales Instruction No. 22/2015 dated 11/12/2015.

Now, in compliance to the deliberations which took place on the various issues in the meeting held on 02.05.2016 under the Chairmanship of Ld. ACS (Power), Govt. of Haryana, the procedure has been further simplified as under.

A APPLICABILITY

1. The "eligible consumer" (i.e. a consumer of electricity in the area of supply of the licensee, who intends to install or has installed a rooftop solar system in his premises, to offset part or all of his own energy requirement) may install the rooftop solar system under net metering arrangement which,
 - a) Shall be within the permissible rated capacity as defined under these Regulations. The maximum rooftop solar system capacity to be installed at any eligible consumer premises shall not exceed his connected 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. Provided further that a variation in the rated capacity of the system within a range of five percent shall be allowed

- b) Shall be located in the consumer premises.
 - c) Shall interconnect and operate safely in parallel with the licensee's network.
2. The net metering facility shall also be applicable to such consumers who have already installed rooftop solar system subject to compliance of Regulations.

B CAPACITY TARGETS FOR DISTRIBUTION LICENSEE

1. DHBVN shall provide net metering arrangement to eligible consumers as long as the total capacity (in MW) of rooftop solar system does not exceed the target capacity determined by the Commission.

Provided a maximum cumulative capacity of 200 MW shall be initially allowed to eligible consumers under net metering, in the area of supply, to be reviewed yearly by the Commission; Provided that the cumulative capacity of rooftop

solar systems to be allowed at a particular distribution transformer/power transformer shall not exceed 30% of the peak capacity of the distribution transformer in case of interconnection with the grid at low tension and 15% of the peak capacity of the power transformer in case of interconnection with the grid at high tension or the revised cumulative capacity as the Commission may decide from time to time.

2. SDO/Op concerned shall update the distribution transformer level and by SE 'OP' in case of power transformer level capacity available for connecting rooftop solar systems under net metering arrangement and the cumulative capacity of the rooftop solar systems installed under net metering arrangement on six monthly basis and shall provide the information to XEN/IT for uploading on DHBVN website as well as to the Commission.

C Processing of Application and time lines for each activity

Name of Activity	Description	Time Schedule
Submission of application	The consumer will tender an application to the SDO(Op) Concerned in the prescribed form along with application processing fee of Rs. 1000/-, for seeking permission for installation of rooftop solar system in his premises under net metering arrangement. A specimen of the application form is attached as Annexure-I to HERC Regulations.	
Acknowledgement for receipt of application	Acknowledgement in lieu of receipt of application shall be given to the consumer by S/Divn office on the	Same day

Name of Activity	Description	Time Schedule
	prescribed performa placed as Annexure-II.	
Site verification	The site verification shall be carried-out by SDO/OP concerned (Annexure-II-A)	Within 3 working days of the receipt of application.
Approval for installation of Roof top Solar Power Plant under Net Metering	Permission shall normally be granted by SDO/OP concerned within 15 days from the date of submission of the application as per Annexure-III provided there is feasibility for connectivity and subject to capacity limit on the distribution transformer/power transformer and the target capacity of the licensee as given in regulation 6.1 i.e. 'CAPACITY TARGETS FOR DISTRIBUTION LICENSEE . '	There is no requirement of the feasibility report for the solar power plant upto capacity of 5 kWp for next two years. The feasibility for the solar power plant of capacity above 5 kWp shall be checked within one week.
Signing of agreement with DHBVN	The agreement shall be signed by the consumer and concerned SDO 'OP' on the format placed at Annexure-IV.	Within 3 days after submission of the duly filed agreement form by the consumers.
Installation of Roof top Solar Power Plant	After approval for installation of rooftop solar power plant under net metering, the applicant will get installed solar power plant from the list of companies/firms from the empanelled firm issued by MNRE and submit work completion report alongwith photograph of the system of the single line diagram of the synchronizing and protection arrangement	The time line for completion of above activity is 180 days from the date of approval given by SDO/OP concerned.
Submission of safety certificate by the applicant.	<ul style="list-style-type: none"> a. The consumer will submit the safety certificate issued by the list of chartered Engineers circulated vide S.I. No. 04/2016 upto 100 KWp. b. Further as per Haryana Government Power Department Notification No.6/2016-2 Power, all the apparatus of capacity above 100 KVA of the generating units including generating units producing electricity from renewable sources of energy shall be inspected by the Electrical Inspector before commissioning. 	Within 2 days
Supply of bidirectional meters (applicable till such	SDO/OP will accept the meter so purchased by the consumer	Meter shall be procured by the consumer from open

Name of Activity	Description	Time Schedule
time the same is not available with the Nigam and the meter supplier are temporary empanelled as a stop gap arrangement).	alongwith completion certificate & safety certificate.	market/empanelled firms if any, as the case may be as per the specifications of the Nigam. The meter will be got tested within 3 days of its receipt by the Nigam.
Checking of installation & testing of meter	SDO/OP concerned will call M&P team for testing and connecting with the grid.	Within 3 days from the submission of 'work completion and Safety Certificate' by consumer.

D Meters shall be installed only after complete testing & sealing by the respective M&T Labs of DHBVN as per prevailing procedures in vogue.

E Empanelment of agencies for carrying out the work of installation:

The firms which have been empanelled by Ministry of New Renewable Energy (MNRE) (list available on its website www.mnre.gov.in) and for whom empanelment certificate thereof has been issued by MNRE for the purpose of installation of grid connected Rooftop Solar Power Plant vide various empanelled lists, circulated from time to time shall only be authorized to execute the work of installation of Rooftop Solar Grid Interactive System based on net metering under DHBVN

F ENERGY ACCOUNTING AND SETTLEMENT

1. 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. In case solar power system is connected to the grid during part of the year, the 90% capping shall be on the electricity consumption from the date of connection (to the grid) to the end of the 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.

2. Billing and payment

- i) Concerned meter reading agencies will record the reading of both the bi-directional and solar meters, simultaneously on the format given below: -

Name of consumer	A/c No.	Solar Meter			DHBVN Meter		
		IR	FR	Net	Import	Export	Net

- ii) The consumer shall receive a net import/export bill indicating either net export to the grid or net import from the grid.
- iii) In case of net import bill, i.e. electricity supplied by the licensee exceeds the electricity generated by the consumer's solar rooftop system, the licensee shall raise bill for the net electricity consumption after taking into account any carry forward from previous billing periods in the same financial year (to be adjusted by SDO 'OP' through sundry). If during any billing period, the export of energy exceeds the import of energy, such surplus energy (in KWh/KVAh) 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. No interest shall be payable on this energy credit. Simultaneously licensee shall not levy any charges on the energy injected to the grid.
- iv) If the eligible consumer is under the ambit of time of day tariff, the electricity consumption in any time block peak, off-peak or normal shall be first set off with the solar generation in the same time block. Any excess generation over consumption in any time block, over and above the usage in that time block shall be adjusted against energy supplied at the lowest applicable tariff across all the slots.
- v) Provided that the excess electricity measured in kilo-watt hour/KVAh shall only be utilized to offset the consumption measured in kilo-watt hour/KVAh and may not be utilized to compensate any other fee and charges imposed by the licensee as per the order of the Commission.
- vi) Provided also that the licensee in addition to consumer tariff shall be eligible to raise invoice for any other charges as allowed by the Commission.
- vii) Minimum monthly charges (MMC), where applicable, shall continue to be related to total consumption of the consumer and not to the net consumption.

Sample calculation on Net Metering Domestic Consumer is illustrated as under:-

Category – DS - Domestic
 Period 03.06.2016 to 03.07.2016 - 30 days
 Sanctioned load – SL-40 KW
 Solar Meter – S= 500 KWH
 (Solar Gen. Units)
 Net Meter
 Import Units – I= 400 Units
 Export Units – E= 260 Units
 Net consumption (NC) – (I-E)= 140 Units
 Total Consumption(TC) – (I+S-E)=400+500- 260
 a. Sop Net Consumption – $NC \times 4.5 =$. Rs.630
 b. FSA (Net Consumption) – Rs. 192.8
 c. ED – Rs.14
 d. M. Tax – Rs.7
 e. SOP (Total Consumption) - 0 – $150 \times 450/KWH = 675$
 $151-250 \times 500/KWH = 500$
 $251-500 \times 605/KWH = 1512.5$
 $501-640 \times 675/KWH = 945$
 Total = Rs. 3632.5
 f. MMC - $2 \times 120 + 38 \times 70 =$ Rs.2900
 g. Amount to cover MMC – 0
 h. Rebate of Solar Gen *. – $500 \times 0.25 = 125$
 Net bill (a+b+c+d+g-h) = Rs.718.8

Note: * In case solar generation is more than 90% of the total consumption then rebate shall be capped to 90% of the total consumption

- viii) The licensee shall accept the solar power as per the useful life of the rooftop solar system unless the solar power generator ceases to be a consumer of the licensee or the rooftop solar system is abandoned earlier.
- ix) In order to promote Solar Power generation in Haryana through net metering, the licensees shall provide incentive on the power generated through rooftop solar system. 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 as per Regulation 9.1. The incentive payable shall be given by way of adjustment in the energy bill in each billing cycle.
- x) The incentive payable under these Regulations shall be reviewed by the Commission every year alongwith ARR/Tariff petition for that year and the incentive payable accordingly for FY 2016-17 onwards.
- xi) Provided that the amount of incentive paid by the licensees during the FY 2015-16 shall be made revenue neutral by the Commission while issuing Order on the ARR/Tariff petition of the licensees for the FY 2016-17.

- xii) Provided further that the incentive shall be paid only to the eligible consumers who install the rooftop solar system after notification of these Regulations.
- xiii) The grid interactive rooftop solar system may be installed with or without battery backup. Provided that where the rooftop solar system is installed with battery backup (full load backup/partial load backup), the inverter shall have separate backup wiring to prevent the battery/decentralized generation power to flow into the grid in the absence of grid supply and manual isolation switch shall also be provided.
- xiv) Consumer-wise details alongwith Total cumulative capacity installed in the sub division, shall be compiled by SE/OP monthly & intimated to CE/HPPC on monthly basis showing total capacity installed and total units generated, total import and export units recorded by bi-directional net meters and total energy consumed by the existing consumers from the rooftop solar system under net metering arrangement.
- xv) CE/HPPC will collect the utility wise information and take action for solar RPO obligation.
- xvi) XEN 'OP' and XEN/M&P concerned shall be the designated officer for providing Net Metering facility under Solar Power Project.
- xvii) XEN/HPPC, Panchkula shall be the State Level Nodal Officer.
- xviii) The following officers have been designated as Nodal Officers for respective installations:-
 - SE/Comml. - Nodal officer for all instructions
 - SE/HPPC- For HERC issues/tendering/RPO etc
 - SE/M&P- For Net Metering installations and also for providing data

Sales Instruction No. 22/2016 is superseded.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**SE/Commercial,
For CE/Commercial
DHBVN, Hisar.**

UTTAR/DAKSHIN HARYANA BIJLI VITRAN NIGAM LTD

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

Name of the Sub-Division _____

Application No. _____

Date of Receipt _____

(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	Telephone No.	
5	Permanent Address of the applicant (Residential).	
6	Category of existing electricity connection	
7	Account No.	
8	Connected Load / Contract Demand, (In kW /kVA).	
9	Voltage at which supply has been given (In volts).	
10	Capacity of rooftop Solar System to be installed (In kWp).	
11	Voltage at the output of solar inverter (In volts).	

Date: _____ Signature of applicant

List of documents to be attached with Application Form

1. Copy of the latest paid electricity bill.
2. 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 Directors in case of companies (as applicable).
3. Net Metering Connection Agreement.

.....

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

(Signature of authorized officer)

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	
2	Meter security (if applicable)	
3	Meter testing fee (if applicable)	
4	Any other item.	
	Total	

Received Rs _____ (Rupees _____)

Vide Receipt No. _____ Dated _____

Name _____ Designation _____ Signature _____

CERTIFICATE OF SITE VERIFICATION

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 11 KV 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 Transformers (cumulative capacity of rooftop solar systems to be allowed at a particular distribution/power transformers shall not exceed 30% of the peak capacity of the distribution transformer in case of interconnection with the grid at low tension and 15% of the peak capacity of the power transformer in case of interconnection with the grid at high tension or the revised cumulative capacity as the Commission may decide from time to time) in kWp.	

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

Signature_____

Date_____

NO DUES CERTIFICATE

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

Name_____Designation_____Signature_____

Date_____

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 fee (if applicable)	
3	Any Other item	
Total		

(B) Documents & Equipment

- (i) Test report
- (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 & 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

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 _____ (herein after called as Licensee) and having its registered office at (address) _____ 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/interconnection 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.

In the witness, where of Mr. _____ for and on behalf of _____

Eligible consumer) and Mr. _____ for and on behalf of _____

(Licensee) agree to this agreement.

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D-42/2016

From

CE/Commercial,
DHBVN Hisar

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I Incharge Sub office in DHBVN

Memo No. Ch-42/SE/Comml./ R-16/67/2006-Vol-4

Dated: 30/12/2016

Subject: Mandatory Installation of Solar Photovoltaic Power Plant (Order No. 22/52/2005-5 Power dated 21st March of 2016 of Renewable Energy Department).

Enclosed please find herewith a copy of order no. 22/52/2005-5 Power dated 21st March, 2016 of Renewable Energy Department for information and strict compliance.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**CE/Commercial
DHBVN, Hisar.**

**HARYANA GOVERNMENT
RENEWABLE ENERGY DEPARTMENT
ORDER**

Dated 21st March, 2016

No. 22/52/2005-5Power.- In exercise of the powers conferred by section 18 of the Energy Conservation Act, 2001 (Central Act 52 of 2001), the Governor of Haryana hereby issues the following directions for efficient use of energy and its conservation in the State of Haryana: The installation of Solar Photovoltaic Power Plant for the category of buildings/areas mentioned in column 2 as per the capacity mentioned against it under column 3 of the schedule below shall be mandatory:

Sr. No	Category of building/area	Capacity of Solar Photovoltaic Power plant to be installed
1	2	3
1	All new residential buildings built on a plot size of 500 Square Yards and above falling within the limits of Municipal Corporations, Municipal Councils, Municipal Committees, Haryana Urban Development Authority (HUDA), Haryana State Industrial and Infrastructure Development Corporation (HSIIDC) sectors.	Minimum 1 Kilo Watt peak (KWp) Or 5% of sanctioned load, whichever is higher
2	All private Educational Institutes, Schools, Colleges, Hostels, Technical/Avocational Education Institutes, Universities etc. having sanctioned load of 30 Kilo Watt (KW) and above	Minimum 5 Kilo Watt peak (KWp) Or 5% of sanctioned load, whichever is higher
3	All Government Buildings and Offices, Government Colleges, District Institute of Education and Training (DIET), Government Educational Institutions, Universities, having sanctioned load of 30 Kilo Watt (KW) and above	Minimum 2 Kilo Watt peak (KWp) Or 5% of sanctioned load, whichever is higher
4	All private Hospitals and Nursing Homes, Industrial Establishments, Commercial Establishments, Malls, Hotels, Motels, Banquet Halls and Tourism Complexes, having sanctioned <i>Jpad</i> (i) of 50 Kilo Watt (KW) to 1000 Kilo Watt (KW); (ii) above 1000 Kilo Watt (KW)	(i) Minimum 10 Kilo Watt peak (KWp) Or 5% of Connected load, whichever is higher (ii) Minimum 50 Kilo Watt peak (KWp) Or 3% of sanctioned load, whichever is higher

Sr. No	Category of building/area	Capacity of Solar Photovoltaic Power plant to be installed
1	2	3
5	All new Housing Complexes, developed by Group Housing Societies, Builders, Housing Boards, on a plot size of: (i) 0.5 Acre to 1.0 Acre; (ii) More than 1.0 Acre to 2.0 Acres; (iii) More than 2.0 Acres to 5.0 Acres; (iv) More than 5.0 Acres	Minimum 10 Kilo Watt peak (KWp) Minimum 20 Kilo Watt peak (KWp) Minimum 30 Kilo Watt peak (KWp) Minimum 40 Kilo Watt peak (KWp)
6	All water lifting stations of Irrigation Department having connected load of 100 Kilo Watt (KW) and above	Minimum 50 Kilo Watt peak (KWp) Or 3% of Connected load., whichever is higher

- i. **This order supersedes the order notified vide No. 22/52/2005-5 Power dated 3rd September, 2014.**
- ii. The Departments of Town and Country Planning, HUDA, Urban Local Bodies, Haryana State Industrial and Infrastructure Development Corporation (HSIIDC), Industries and Commerce shall incorporate a relevant provision in this regard in their rules, within three months from the date of issue of notification, to make use of Solar Photovoltaic Power Plants mandatory. They shall also define the penal action, procedure, mentioning the amount of penalty, for not complying with the provisions of this notification as per their departmental rules.
- iii. Departments of Public Works (Buildings and Roads), Haryana State Roads & Bridges Development Corporation, Public Health, Education (all departments and Mission mode projects), Health (all departments and Mission mode projects), Social Justice and Empowerment, Red Cross Societies, Architecture, Housing Board, Haryana State Agricultural Marketing Board (HSAMB), Irrigation, Forest, Police Housing Corporation, Tourism, State Universities or any other government building constructed shall implement the mandatory provisions of installation of Solar Photovoltaic Power Generation Plant for the buildings constructed by them
- iv. The Renewable Energy Department being a State Designated Agency for implementing Energy Conservation Act in the State shall provide all necessary technical support to the Government Departments/Organizations in preparation of project proposal, cost estimates, installation of Solar Power Plants and in

obtaining the Central Financial Assistance(CFA) from Ministry of New and Renewable Energy (MNRE), Government of India (GOI), if available, from the Ministry of New and Renewable Energy, Government of India, from time to time.

- v. The concerned departments shall designate a District and State level Nodal Officer to monitor and to report the progress of enforcement of the said decision of the State Government, to the Renewable Energy Department, Haryana, on quarterly basis in the formats to be issued by Renewable Energy Department through the office of respective Additional Deputy Commissioner-cum-Chief Project Officer. Based on these reports the Renewable Energy Department will do quality/technical checks. If found not satisfactory then concerned department will take appropriate penal action as mentioned above.
- vi. The above said organizations/user categories shall ensure the compliance of above mentioned mandatory provisions, within six months from the date of issue of concerned department's new guidelines/notification (as per clause (iii) above), at their own cost, failing which, the penal action may be initiated by the respective departments.

(Note: In case of non-compliance of these orders, the Power Utilities Department shall have the power to disconnect the electricity connections after serving due notice on expiry of the deadline mentioned above. The Executive Engineer (Operation) of the Power Utilities Department shall be the enforcing authority of these orders and they shall send quarterly progress reports in this regard to the Additional Deputy Commissioner of their district who in turn shall submit a compiled quarterly report to the Renewable Energy Department, Haryana (the State Designated Agency under the Energy Conservation Act, 2001 (Central Act 52 of 2001))." However, if the Power Utilities Department fails to comply with the directions of the government, then the responsibility shall also be fixed for noncompliance of the directions.)

- vii. The systems installed shall strictly comply with the technical specifications prescribed by Ministry of New and Renewable Energy, Government of India/ Renewable Energy Department, Haryana/ Haryana Renewable Energy Development Agency (HAREDA). The technical specifications may be

downloaded from the website of the Renewable Energy Department
www.hareda.gov.in

- viii.** The user categories of private sector may install the Solar Photovoltaic Power Plants either from the Channel Partners/New Entrepreneurs/ firms empanelled by Ministry of New and Renewable Energy or from the firms empanelled by Renewable Energy Department, Haryana/ Haryana Renewable Energy Development Agency (HAREDA) and for government departments/organizations, Renewable Energy Department, Haryana is the approved source, being State Designated Agency. The list of Channel Partners/New Entrepreneurs/ firms empanelled by MNRE/HAREDA may be downloaded the website of the Renewable Energy Department www.hareda.gov.in .

Note: If any of the category mentioned in the mandate above have more than one complex/unit, then to fulfill their obligation under this notification, they may install the system in one or more complex, within the State, combining the total requirement as per notification.

Ankur Gupta
Principal Secretary to Government Haryana,
Renewable Energy Department

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D-10/2017

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN.

Memo No.Ch-10/SE/Comml./ R-16/67/2006-Vol-4

Dated: 16/2/2017

Subject:- Mandatory Installation of Solar Photovoltaic Power Plant (Order No. 22/52/2005-5 Power dated 21st March of 2016 of Renewable Energy Department).

Please refer to the S.C. No. D-42/2016 dated 30/12/2016 vide which Notification No 22/52/2005-5 Power dated 21st March of 2016 of Renewable Energy Department regarding Mandatory Installation of Solar Photovoltaic Power Plant for the category of buildings/ areas mentioned in column 2 as per the capacity mentioned against it under column 3 was issued.

1. Further, as per clause VI, the above said organizations/ user categories shall ensure the compliance of above mentioned mandatory provisions, within six months from the date of issue of concerned departments new guidelines/ notification (as per clause (iii) above) at their own cost, failing which the penal action may be initiated by the Power Utilities Department and the electricity connection shall have to be disconnected after serving due notice.
2. In this regard, it has now been decided that the Project Officer, HAREDA will send request in writing to the XEN (OP) concerned for disconnection of electricity connection due to non-compliance of the provisions by the organizations/ user categories and necessary action will be taken accordingly.

Sales Circular No. D-42/2016 stands amended to the above extent.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance.

**CE/Commercial
DHBVN, Hisar.**

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D-11/2017

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN.

Memo No. Ch-11/SE/Comml./R-16/Loose-67/06/Vol-3
Dated: 16/2/2017

Subject:- The Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulation, 2014- Implementation procedure thereof.

Please refer to Sales Circular No. D-18/2016 issued by this office vide memo No. Ch-18/SE/Comml./R-16/Loose-67/06/Vol-3 dated 1/8/2016 on the above subject, wherein the simplified procedure for processing of application for installation of Rooftop Solar Grid Interactive System based and on Net Metering Arrangement and billing thereof was circulated.

The matter has been reviewed by the Management and it has been decided to amend the provision contained in **Clause "C"** of the ibid Sales Circular regarding **"submission of safety certificate by the applicant"** as under:-

:

Submission of safety certificate by the applicant.	<p>a. No safety certificate is required for Rooftop Solar Plants upto 20 kWp. Only installation certificate issued by empanelled agency shall suffice the requirement.</p> <p>b. The consumer will submit the safety certificate issued by the list of chartered Engineers circulated vide S.I. No. 04/2016 more than 20 kWp and upto 100 kWp.</p> <p>c. Further as per Haryana Government Power Department Notification No.6/2016-2 Power, all the apparatus of capacity above 100 kVA of the generating units including generating units producing electricity from renewable sources of energy shall be inspected by the Electrical Inspector before commissioning.</p>	Within 2 days
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The Sales Circular No. D-18/2016 stands amended to the above extent only.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**CE/Commercial,
DHBVN, Hisar.**

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D-18/2017

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN.

Memo No. Ch-18/SE/Comml./ R-16/67/2006-Vol-4

Dated: 27/4/2017

Subject: Mandatory Installation of Solar Photovoltaic Power Plant (Order No. 22/52/2005-5 Power dated 21st March of 2016 of Renewable Energy Department).

Please refer to Sales Circular No. D-10/2017 dated 16/2/2017 vide which it was decided that the Project Officer, HAREDA will send request in writing to the XEN (OP) concerned for disconnection of electricity connection due to non-compliance of the provisions by the Organizations/User categories and necessary action will be taken.

Now, as directed by HERC vide Director/Tariff office memo no. 2299/HERC dated 30.03.2017, it has been decided that Sales Circular No. D-10/2017 is held in abeyance.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance.

**CE/Commercial,
DHBVN, Hisar**

DAKSHIN HARYANA BIJLI VITRAN NIGAM

Sales Circular No. D- 36 /2017

From

CE/Commercial,
DHBVN, Hisar.

To

All CEs/SEs/XENs/SDOs/OP,
JEs-I, Incharge Sub office, in DHBVN.

Memo No. Ch- 36/SE/Comml./R-16/Loose-67/06/Vol-5
Dated: 29-09-2017

Subject:- The Haryana Electricity Regulatory Commission (Rooftop Solar Grid Interactive System based on Net Metering) Regulation, 2014- Implementation procedure thereof.

Please refer to Sales Circular No. D-11/2017 vide which instruction regarding submission of safety certificate by the applicant in case of installation of Rooftop Grid Connected Solar Power Project has been issued.

In view of the clarification received from CEI/GOH, it has been decided that Solar Power Generating units upto 100 KVA capacity are not required to be inspected by Electrical Inspector or Chartered Electrical Safety Engineer.

The Sales Circular No.D-11/2017 has been superseded and D-18/2016 stands amended to the above extent only.

The above instructions should be brought to the notice of all concerned for careful and meticulous compliance with immediate effect.

**CE/Commercial,
DHBVN, Hisar.**