

UTTARAKHAND ELECTRICITY REGULATORY COMMISSION

‘Vidyut Niyamak Bhawan’, Near I.S.B.T., P.O.-Majra, Dehradun-248171

Notification

September 8, 2017

No. F-9(21)(VI)/RG/UERC/2017/991: In exercise of powers conferred under section 181(2)(zp) read with Section 86(1)(e) of the Electricity Act, 2003, and all other powers enabling it in this behalf, and after previous publication, the Uttarakhand Electricity Regulatory Commission hereby makes the following amendments in the UERC (Tariff and Other Terms for Supply of Electricity from Renewable Energy Sources and non-fossil fuel based Co-generating Stations) Regulations, 2013 (Principal Regulations) and subsequent amendment made in the same, namely:

1. Short Title, Commencement and Interpretation:

- (1) These Regulations may be called the UERC (Tariff and Other Terms for Supply of Electricity from Renewable Energy Sources and non-fossil fuel based Co-generating Stations) (Sixth Amendment) Regulations, 2017.
- (2) These regulations shall come into force with effect from the date of notification, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of 5 years from the date of commencement of Principal Regulations.

Provided that Regulation 9(1) of the Principal Regulations shall continue to be valid upto 31.03.2019.

2. Amendment in Regulation 2(3) of the Principal Regulations:

Following definition of “Performance Ratio” shall be inserted after Regulation 3 (1) (bb) as under:

“(i) Performance Ratio” (PR) means the ratio of plant output versus installed plant capacity at any instance with respect to the radiation measured.

$$PR = \frac{\text{Measure output in kW}}{\text{Installed Plant capacity in kW}} \times \frac{1000 \text{ W/m}^2}{\text{Measured radiation intensity in W/m}^2}$$

3. Amendment in Sub-Regulation 3(1)(l) of the Principal Regulations:

The amended Regulation shall be read as under:

“Date of commercial operation or Commissioning (CoD)” in relation to a unit means the date declared by the

generator on achieving maximum continuous rating through a successful trial run and in relation to the generating station, the date of commercial operation means the date of commercial operation of the last unit or block of generating station and expression 'commissioning' shall be construed accordingly. In case of Small Hydro Plants the date of commissioning shall, however, not be linked to achieving maximum continuous rating, but the generator will have to demonstrate the same within three years of commissioning.

Provided further that in case of Solar PV plant, date of commercial operation or Commissioning (CoD) shall be considered as the date of first injection of power into the licensee's grid after completion of project in all respect subsequent to compliance of all the following pre-requisites:

- (a) Installation of energy meter as certified by the concerned Executive Engineer of the distribution licensee.
- (b) Project completion report as verified by UREDA, the State nodal agency.
- (c) Issuance of Clearance Certificate by the Electrical Inspector.

Further, such generator has to demonstrate minimum 75% Performance Ratio based on the rated installed capacity in kW or MW at the time of inspection for initial commissioning."

4. Amendment in Regulation 9(1) of the Principal Regulations:

"(1) In line with the provisions of the Act, National Electricity Policy, the Tariff Policy to promote development of renewable and non-conventional sources of energy, all existing and future distribution licensees, captive users and open access customers, hereinafter referred to as "Obligated Entity", in the State shall be obliged to procure minimum percentage of their total electricity requirement for own consumption, as indicated below, from eligible renewable energy sources as defined under Regulation 4. The same shall be called the Renewable Purchase Obligation (RPO) of the Obligated Entities.

Year	Renewable Purchase Obligation -Non-Solar	Renewable Purchase Obligation – Solar
	Revised	Revised
2013-14	6.00%	0.050%
2014-15	7.00%	0.075%
2015-16	8.00%	0.100%
2016-17	8.00%	1.50%
2017-18	9.50%	4.75%
2018-19	10.25%	6.75%

*Percentage RPO as stipulated above denotes Minimum Quantum of purchase from non-fossil fuel based co-generation and generation of electricity from renewable energy sources' as a percentage of total energy purchased from all sources/generated by the Obligated Entity during the year for own consumption.

Where, total energy purchased for different obligated entities shall be as under:

- a. For Discoms, total energy purchased shall be energy input at State periphery during the year for own consumption; and
- b. For Open Access consumers and Captive users, total energy purchased shall be metered consumption

recorded at drawal / consumption point during the year for own consumption.

Provided, Non-Solar & Solar RPO for FY 2017-18 and FY 2018-19 shall be applicable on total consumption of electricity by an obligated entity excluding consumption met from hydro sources of power.

Provided that any excess obligation (both solar as well as non-solar) on Open Access consumers and Captive users arising due to the amendment for FY 2017-18 shall be allowed to be carried forward to FY 2018-19 which shall be met with the RPO of the subsequent financial year

Provided that if energy from renewable and non-conventional sources of energy becomes available in the State, over and above the specified RPO, the generator or the distribution company of the State can approach the Commission for permitting procurement of such energy in excess of specified RPO."

5. Amendment in Regulation 28 of the Principal Regulations:

The amended Regulation shall be read as under:

"Small Hydro Generating Plant

The technology specific parameters for determination of generic tariffs for Small Hydro Generating Stations shall be as below:

Projects Commissioned on or after 01.04.2013

Project Size	Capital Cost	O&M Expenses for the year of commissioning	Capacity Utilization Factor	Auxiliary Consumption
	(Rs. Lakh/MW)	(Rs. Lakh/MW)	(%)	(%)
Upto 5 MW	785	35.33	40%	1%
> 5 MW & upto 15 MW	750	30.00		
> 15 MW & upto 25 MW	715	25.03		

NOTE:

For the purpose of this Regulation, normative CUF is based on Energy Sent Out at interconnection point and for tariff purposes energy net of free power to the home State, if any, committed by the developer shall be factored. For generic tariff determination, home State share has been taken as 18% from 16th year onwards."

6. Amendment in Regulation 35(3) and Regulation 35 (4) of the Principal Regulations:

The amended Regulations shall be read as under:

"(3) Injection from roof-top solar PV sources owned by the Eligible consumer(s) or by third party shall be settled on net energy basis at the end of each Billing period.

Provided, such net energy shall not be more than 95% of the actual energy generated in the said Billing Period.

Provided, where the net energy injected exceeds 95% of the actual energy generated in a Billing Period, such excess net energy (net energy - 95% of actual energy generated) shall be paid at the lowest base slab

of energy charges prescribed in the Rate Schedule for the said Eligible Consumer or at the rate discovered through tariff based bidding process whichever is lower.

- (4) The tariff, as per tariff orders of the Commission, in respect of the supply of electricity to the consumers by the distribution licensee shall be applicable for the net energy supplied by the licensee in a billing period if the supplied energy by the licensee is more than the energy injected by the roof-top solar PV sources of the consumer(s) or by third party.*

Provided that such eligible consumer shall, however, be exempted from payment of monthly minimum charges or monthly minimum consumption guarantee charges equivalent to the capacity of roof-top solar PV sources installed.

Provided further that no open access charges including surcharges shall be leviable on such eligible consumers for the captive use of power.”

Levelling rate of Fixed Charges in Rs./kWh for SHPs (upto 25MW) applicable up to annual CUF of 40% from 01.10.2017

Particulars	SHPs Commissioned on and after 01.04.2013											
	Upto 5 MW			Above 5 and upto 15 MW			Above 15 and upto 25 MW					
	Gross Tariff	Less: Accelerated Depreciation	Net Tariff	Gross Tariff	Less: Accelerated Depreciation	Net Tariff	Gross Tariff	Less: Accelerated Depreciation	Net Tariff			
1. Levellised (35 yrs)	5.04	0.35	4.69	4.77	0.35	4.42	4.41	0.35	4.06			
2. Annual Tariffs	Year											
	1*	5.29	1.56	3.73	5.06	1.49	3.57	4.76	1.42	3.34		
	2	5.16	1.69	3.48	4.94	1.61	3.33	4.63	1.53	3.10		
	3	5.04	0.14	4.89	4.81	0.13	4.68	4.51	0.13	4.38		
	4	4.91	-0.11	5.02	4.69	-0.11	4.79	4.38	-0.10	4.49		
	5	5.13	-0.14	5.27	4.84	-0.13	4.97	4.26	-0.13	4.39		
	6	5.03	-0.13	5.16	4.74	-0.12	4.86	4.14	-0.12	4.26		
	7	4.94	-0.11	5.05	4.64	-0.11	4.75	4.03	-0.10	4.13		
	8	4.85	-0.10	4.94	4.55	-0.09	4.64	3.92	-0.09	4.01		
	9	4.76	-0.08	4.85	4.46	-0.08	4.54	3.80	-0.08	3.88		
	10	4.68	-0.07	4.76	4.37	-0.07	4.44	3.70	-0.07	3.76		
	11	4.89	-0.06	4.95	4.55	-0.06	4.61	3.84	-0.06	3.90		
	12	4.92	-0.05	4.97	4.54	-0.05	4.59	3.79	-0.05	3.84		
	13	3.95	-0.01	3.96	3.56	-0.01	3.57	2.82	-0.01	2.83		
	14	4.07	-0.01	4.08	3.66	-0.01	3.67	2.89	-0.01	2.90		
	15	4.20	-0.01	4.20	3.76	-0.01	3.77	2.96	-0.01	2.96		
	16	5.28	-0.01	5.29	4.73	-0.01	4.74	3.69	-0.01	3.70		
	17	5.45	-0.01	5.46	4.88	-0.01	4.88	3.79	-0.01	3.79		
	18	5.64	-0.01	5.64	5.03	-0.01	5.04	3.88	-0.01	3.89		
	19	5.83	-0.01	5.83	5.20	-0.01	5.20	3.99	-0.01	3.99		
	20	6.03	0.00	6.04	5.37	0.00	5.37	4.10	0.00	4.10		
	21	6.25	0.00	6.25	5.55	0.00	5.56	4.21	0.00	4.22		
	22	6.48	0.00	6.48	5.75	0.00	5.75	4.34	0.00	4.34		
	23	6.72	0.00	6.72	5.95	0.00	5.95	4.47	0.00	4.47		
	24	6.97	0.00	6.98	6.17	0.00	6.17	4.60	0.00	4.61		
	25	7.24	0.00	7.24	6.40	0.00	6.40	4.75	0.00	4.75		
	26	7.53	0.00	7.53	6.64	0.00	6.64	4.90	0.00	4.90		
	27	7.83	0.00	7.83	6.89	0.00	6.89	5.06	0.00	5.07		
	28	8.15	0.00	8.15	7.16	0.00	7.16	5.24	0.00	5.24		
	29	8.48	0.00	8.48	7.45	0.00	7.45	5.42	0.00	5.42		
	30	8.84	0.00	8.84	7.75	0.00	7.75	5.61	0.00	5.61		
	31	9.22	0.00	9.22	8.07	0.00	8.07	5.81	0.00	5.81		
	32	9.61	0.00	9.61	8.41	0.00	8.41	6.03	0.00	6.03		
	33	10.03	0.00	10.03	8.77	0.00	8.77	6.25	0.00	6.25		
	34	10.48	0.00	10.48	9.14	0.00	9.14	6.49	0.00	6.49		
35	10.95	0.00	10.95	9.54	0.00	9.54	6.74	0.00	6.75			

**Year 1 shall be the year of commissioning for generic tariffs*

By the order of the Commission

(Neeraj Sati)
Secretary