



# ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ನಿಗಮ ನಿಯಮಿತ

CIN: U04010KA2002SGC030438

## BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

No: BESCOM/BC-51/2023-24/CYS-14

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Date 30.06.2023

### OFFICIAL MEMORANDUM

**Sub:** Determination of tariff and other norms in respect of Grid connected Solar Rooftop Photo Voltaic plants (SRTPV) in BESCOM for FY24-reg

**Ref:** 1. KERC Order for "Determination of tariff in respect of Solar Power Projects (Including Solar Rooftop Photo Voltaic plants (SRTPV) for FY-24" dated: 01.06.2023  
2. Approval of MD, BESCOM dated: 26.06.2023

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#### PREAMBLE:

The section 86(1) (e) of the Electricity Act, 2003 has mandated the State Electricity Regulatory Commission to promote generation of electricity from renewable sources of energy. Accordingly, the Karnataka Electricity regulatory Commission (KERC) has been promoting generation of power from renewable sources by determining the feed in tariff (generic tariff) periodically based on the normative operational and financial parameters for different control periods from the year 2005 onwards.

The Commission vide order cited under ref(1) has determined the tariff rates of SRTPV projects for FY-24. **Hence, this OM.**

No: BESCOM/BC-51/2023-24/CYS-214

Dated: 30.06.2023

1. The Hon'ble KERC has determined the tariff of grid connected Solar rooftop photovoltaic plants as below:

Sl no.	Capacity	Tariff Rs per unit		Remarks
		Without Capital subsidy	With Capital subsidy	
1	1 to 10kW Domestic consumers	Rs.4.50/-	Rs.2.97/-	-
2	1kW to 2000kW Other than Domestic consumers	Rs.3.74/-		The EE of C, O & M division shall executive PPAs from 500kWp upto 2000kWp and Commission & Synchronize the plant in co-ordination with MT staff

2. The above tariff shall be applicable to all such new SRTPV projects for which PPAs are entered into **on or after 01.04.2023**.
3. The tenure of the PPA shall be for the life of the solar power projects **i.e. Twenty Five (25) years**.
4. This order shall be in force **with effect from 1<sup>st</sup> April 2023 upto 31.03.2024 i.e. applicable for control period FY24**.
5. **Installed capacity of Solar Rooftop PV plants should be limited to 100% of the sanctioned load** of the respective consumer's installation based on gross or net metering.
6. Hon'ble KERC in its **order dated: 11.11.2016** has allowed installation of the SRTPV plants on the Government buildings by the ESCOMs under funding from the government wherein the govt. installations are allowed to utilize the SRTPV generated energy under net metering arrangement and excess energy shall be injected to the grid without any payments to the ESCOMs.

**The Commission has continued the scheme. For the purpose of computing the maintenance cost, the tariff shall be considered as per this order.**

7. Hon'ble KERC in its order **dated: 15.09.2017** has allowed installation of multiple SRTPV units or single SRTPV unit with the combined installed capacity in single premises not exceeding the total sanctioned load of all the consumers in that premises.
  - The existing scheme **is continued with the generic tariff of 90%** as determined by the Commission.
  - For any **change in sanctioned load / tariff of the consumer**, the **consumer will be eligible for 90% of the tariff as per PPA or prevailing tariff whichever is lower**.
  - Net metering arrangement for **multiple registered / single registered** consumer in the same premises having an existing SRTPV plant and willing to enhance the capacity of the plant within the **sanctioned load or increase the sanctioned load** to enhance the capacity of SRTPV plant, by executing a separate PPA and connected to the same load. **The tariff for the enhanced capacity will be the prevailing tariff as on the date of execution of the second PPA**.
  - The **billing arrangement will be on the prorata basis** with reference to the generated energy and tariff as per the respective PPAs.

8. The KERC in its order **dated:09.12.2019** has allowed various models on the third party investments for installing SRTPV plant on Consumers building and the same has been challenged by M/s Amplus Energy Solutions Pvt Ltd and others before Hon'ble ATE.

**Commission allows the tariff for any surplus energy injected as per this order, subject to the decision of the Hon'ble ATE.**

9. Grid Connectivity:

<b>Sl No</b>	<b>Installed Capacity of SRTPV</b>	<b>Voltage level</b>
1	Upto 5 kW	230V - single Phase
2	Above 5 kW and <b>upto 150 kW</b>	400V - three Phase
3	Above <b>150 kW and upto 2000 kW</b>	11kV HT

10. The consumers are allowed to install Solar Panels and other equipment conforming to standards specified by IEEE/ BIS, without insisting on procurement from the ESCOM's empanelled vendors.

11. The PPAs shall be executed as per the approved standard format of KERC.

- The PPAs for capacity from 500kW upto and inclusive of 1000kW shall be approved by GM(DSM) Section, BESCO.
- The PPAs for capacity above 1000kW shall be submitted to the Commission for the approval.
- Approval of the Commission shall be obtained in case there is any deviation from the standard approved format of PPA.

12. The Commission has allowed the **non-residential consumers** such as Educational Institutes, Hospitals, IT parks, Industries to implement the SRTPV plant **on the rooftops of the building and also on the roof of the carport** duly limiting the capacity of the SRTPV plant to the sanctioned load of the consumer.

13. The Commission has approved the timelines for various activities involved in implementation of SRTPV plant as stated:

<b>For 1kW to 10kW (Domestic Consumer)</b>		
<b>Activity</b>	<b>Responsibility</b>	<b>Timeline</b>
Submission of Application which includes PPA. No separate PPA is required to be executed. The submission of application is deemed to be the approval to commence the work.	Consumer / ESCOM	Zero date
<p><b>Directions:</b> ESCOMs are directed to provide facilities for submission of online application. The PPA and letter of approval to execute the work shall form part of the application. The consumer will upload the work completion report within the timelines.</p>		
Online uploading of Work Completion Report by the consumer	Consumer	150 days from the date of execution of PPA
Inspection by the ESCOM officials for commissioning of the project after receipt of work completion report	ESCOM	<p>Within 05 working days from the receipt of work completion report</p> <p>If the <b>plant is not commissioned within 05 days</b> from the date of work completion the concerned officer shall be liable to pay <b>penalty of Rs.1000 per day</b> till the date of the commissioning to the applicant.</p> <p>After 05 of work completion in case the plant is not commissioned the consumer are entitled to deemed generation benefit.</p>
Commissioning of the Rooftop Solar System in case the work completion Is delayed by the consumer.	Consumer/ ESCOM	Within Six months from the date of uploading of the application. In case of delay of more than six months, the tariff payable will be as per the terms of PPA.
Billing Process	ESCOM	30 days from the date of commissioning of the solar plant

<b>For 1kW to 2000k</b>		
<b>(For all other consumers excluding 1kW to 10kW domestic consumers)</b>		
<b>Activity</b>	<b>Responsibility</b>	<b>Timeline</b>
Submission of Application	Consumer	Zero date
Acknowledgement of Application by ESCOM	ESCOM	Within 03 days
Site Verification/Technical Feasibility & issuance of letter of Approval/Rejection of Application	ESCOM	Within 10 days from the date of acknowledging the application
Execution of PPA(Including countersignature by the controlling officer upto and inclusive of 1000kW SRTPV projects)	ESCOM & Consumer	Within 05 working days from the date of issuance of letter of Approval
Submission for approval of PPA to the ESCOM, to Corporate Office, BESCO (from 500kW to 1000kW) and to the Commission(More than 1000kW)	ESCOM	Within 07 working days from the date of execution of PPA
Submission of Work Completion Report by the consumer	Consumer	150 days from the date of execution of PPA
Inspection by the ESCOM officials for commissioning of the project after receipt of work completion report	ESCOM	Within 05 working days from the receipt of work completion report. If the <b>plant is not commissioned within 05 days</b> from the date of work completion the concerned officer shall be liable to pay <b>penalty of Rs.1000 per day</b> till the date of the commissioning to the applicant. After 05 of work completion in case the plant is not commissioned the consumer are entitled to deemed generation benefit.
Commissioning of the Rooftop Solar System	Consumer/ ESCOM	Within Six months from the date of approval or deemed approval of PPA
Billing Process	ESCOM	30 days from the date of commissioning

All other issues not covered under this Order, shall be governed by the respective Regulations and Orders issued by the Commission and PPAs signed by the parties.

**Note:**

1. It may also be noted that, while execution of PPA, the tariff rates should be written and typed compulsorily in figures and words, both.
2. As per the directions of the Hon'ble KERC, this office is developing portal for online registration of SRTPV applications for residential consumers with sanctioned load of 1kW to 10kW wherein the PPA terms & conditions will be accepted by the applicant while the registration of the application through e-signature of the applicant and the work approval letter will be auto-generated. There will be no separate execution of the PPA in the stamp paper. The same shall be intimated shortly through a separate OM.

The KERC SRTPV Orders dated:11.11.2016, 15.09.2017 & 01.06.2023 are enclosed with this circular as **Annexure-A to C and also available in below link:**

<https://bescom.karnataka.gov.in/new-page/SOLAR%20ROOFTOP/en>

  
General Manager (E1e)  
DSM, BESCO

**Copy to:**

1. To All the CGMs/GMs of the Corporate Office, BESCO
2. The CEE of BMANZ/BMASZ/BRAZ/CTAZ of C, O&M Zone, BESCO for information.
3. The SEEs/EEEs of C, O&M Circles/Divisions, BESCO.
4. The Assistant General Manager, CBC, DSM Section, Corporate Office, BESCO.
5. PS to MD/D (T)/D(F) with a request to place before the chair.
6. MF / OC.