



**Permission/renewal of permission to affix label on Solar Photovoltaic Modules under the Bureau of Energy Efficiency (Particulars and Manner of their Display on Label of Solar Photovoltaic) Schedule No. 35, year 2023.**

## **Bureau of Energy Efficiency**

No:- BEE/SWE//004/24/25/000/SPV

Date:25-01-2025 18:55:15

To,

**MISS MIRUNALINI VENKATAGIRI CHELLAPPAN (Director)  
SWELECT HHV SOLAR PHOTOVOLTAICS PRIVATE LIMITED  
SWELECT HOUSE, NO.5, SIR P.S. SIVASAMY SALAI, MYLAPORE**

**Chennai  
Tamil Nadu  
Chennai -600004  
Mobile No - 9900015990  
Phone No - 04222- 555101  
Email : mirunalini@swelectes.com**

**Subject :- Bureau Of Energy Efficiency Voluntary Scheme for Solar Photovoltaic Modules Energy Efficiency labelling, January 2024, Authorization to use the Label.**

Dear Sir,

1. With Reference to your application received to BEE Office for participation in Bureau Of Energy Efficiency Voluntary Scheme For energy efficiency Labelling March 2019. scheme. The Bureau here by authorizes you to use the BEE Label strictly in accordance with the provision of scheme subject to time payment of prescribed fees. The competent authority has authorized usage of label from **24th January, 2025** . The permission shall be valid from **24th January, 2025 to 31st December, 2025** .

2. This authorization carries the rights and obligations stipulated in the scheme. In pursuance of obligation, you shall pay in due manner and time the scheduled labelling fee as set out in the scheme. The Bureau shall at any time During the operation of the scheme, decide to mean, revise, modify or terminate the scheme by giving three month prior notice and you will be bound to comply with such amendment, revision, modification within such period, as may be prescribed by the Bureau.

3. During the tenure of scheme, for particular model / equipment, if there are any changes in energy efficiency of such model / equipment or any other information specified on the label, then you will be bound to submit a fresh application, which application shall be freshly processed and approved, if deemed Fit, in accordance with provisions of the scheme.

4. The Star Label declared by you for the following Models of **Solar Photovoltaic** given as under would be check tested by BEE from time to time.



User of label : SWELECT HHV SOLAR PHOTOVOLTAICS PRIVATE LIMITED

Equipment : Solar Photovoltaic

### 5. Details of the Equipment

Application ID	180748
Trade Mark / Brand Name	SWELECT
Nameplate capacity of the PV module	580
Year Of Manufacturing	2024
Sample Type	Bi-Facial

### (B) Technical specification:

Sl.No	Measured values		Rated values	
1.	Degradation in performance after Hot-spot endurance test(%)	-0.38	Degradation in performance after Hot-spot endurance test(%)	-0.38
2.	Degradation in performance after UV preconditioning(%)	-0.30	Degradation in performance after UV preconditioning(%)	-0.30
3.	Degradation in performance after Thermal cycling test(%)	-1.88	Degradation in performance after Thermal cycling test(%)	-1.88
4.	Degradation in performance after Humidity freeze test(%)	-0.19	Degradation in performance after Humidity freeze test(%)	-0.19
5.	Degradation in performance after Damp heat test(%)	-0.54	Degradation in performance after Damp heat test(%)	-0.54
6.	Degradation value post PID test(%)	-0.45	Degradation value post PID test(%)	-0.45
7.	Module Temperature T <sub>m</sub> (0C)	58.5	Module Temperature T <sub>m</sub> (0C)	58.5
8.	Effective Efficiency (eff %)	20.26	Effective Efficiency (eff %)	20.29
9.	Annual Electricity Generation (kWh/year)		Annual Electricity Generation (kWh/year)	426.02

### 6. Label Details

Name of the manufacturer/importer/brand	SWELECT
Model / Year of manufacturing	SWT15BG6580 / 2024
Star level	4
Appliance	Photovoltaic Module
Nameplate capacity of the PV module	580
Effective Efficiency (eff %)	20.29

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएँ Save Energy for Benefit of Self and Nation



Annual Electricity Generation (kWh/year)	426.02
Country of Origin	India
Label period	01-01-2024 - 31-12-2025
Unique label series code	<b>BEE/SWE//004/24</b>

7. Specimen of the label duly approved by the Bureau to be affixed on the Solar Photovoltaic is shown below (Separate specimens for family of models is annexed).

	<b>Annual Electricity Generation - 426.02 kWh/year*</b>	Appliance : Photovoltaic Module
	<b>Assumption for Annual Irradiation - 2100 kWh/m<sup>2</sup></b>	Brand : SWELECT
<b>Effective Efficiency - 20.29%**</b>	<b>Label Period: 1<sup>st</sup> Jan. 2024 to 31<sup>st</sup> Dec. 2025</b>	Technology : TOPCon
		Model/Year : SWT15BG6580/2024
		Capacity : 580(W)
		Country of Origin : INDIA
		<b>BEE/SWE//004/24</b>



8. The label design, size, colour scheme, material to be used for the label and the content of the label and colour scheme of the Bureau's logo shall be as specified in the Schedule to these regulations.

9. You shall be solely liable for ensuring:

- The accuracy of the information displayed on the label or any public claim for label level and quality of equipment.
- Usage of the label only for such equipment models for which the agreement has been entered with the Bureau.
- The model approved herein above cannot be sold without BEE label in the market.
- Strict compliance with Terms & conditions of scheme.
- Strict compliances with the directions issued by the Bureau on implementation of the Scheme.
- Payment of any compensation adjudicated by any court tribunal to any person for any information displayed on the label.

10. A copy of the agreement dated..... duly signed and sealed along with a copy of the Scheme is enclosed .This Agreement shall be valid for a period of 3 years commencing from the date of its execution or until notification under clause (d) of section 14 of energy conservation Act ,2001 is issued by the central Government ,whichever is earlier .The Agreement shall be renewable ,subject to the Bureau receiving an extension application from your end ,at least three month prior to the expiry of the aforementioned period .You can at any time during the operation of this scheme ,withdraw from the scheme subject to your serving a three month written notice on the bureau and also issuing a public notice in this respect ,as specified in the scheme.



ऊर्जा दक्षता ब्यूरो

(भारत सरकार, विद्युत मंत्रालय)

**BUREAU OF ENERGY EFFICIENCY**

(Government of India, Ministry of Power)

Date:25-01-2025



Name: ABHISHEK SHARMA

Designation: Director

For and on behalf of: Secretary

(Name of the firm)

SEAL OF FIRM

अभिषेक शर्मा / ABHISHEK SHARMA

निदेशक / Director

ऊर्जा दक्षता ब्यूरो

Bureau of Energy Efficiency

नई दिल्ली / New Delhi-110066

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएँ Save Energy for Benefit of Self and Nation