

ಚಾಮುಂಡೇಶ್ವರಿ ವಿದ್ಯುಚ್ಛಕ್ತಿ ಸರಬರಾಜು  
ನಿಗಮ ನಿಯಮಿತ,  
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸ್ವಾಮ್ಯತೆಗೆ ಒಳಪಟ್ಟಿದೆ)  
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಎ)  
ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ, ವರುಣ ಉಪವಿಭಾಗ,  
ಚಾ.ವಿ.ಸ.ನಿ.ಮೈಸೂರು - 570010  
Telephone : 0821-2599633



CHAMUNDESHWARI ELECTRICITY  
SUPPLY CORPORATION LIMITED  
(A Government of Karnataka Undertaking)  
Assistant Executive Engineer, O & M  
VarunaSub Division.  
CESC, Mysuru-570010  
Web Site : [www.cescmysore.org](http://www.cescmysore.org)  
Email ID: [aeeccescvaruna@gmail.com](mailto:aeeccescvaruna@gmail.com)

Company Identity Number (CIN):-U40109KA2004SGC035177

ಕ್ರಮಾಂಕ : ಸಕಾಇಂ(ಎ)/ಸಇಂ(ತಾ)/2023-24/ 1364

ದಿನಾಂಕ : 15-07-2023

To,

NIKHIL PRABHU V

#22&23, MN LAYOUT, HANCHYA,

MYSURU

9620182781

Madam/Sir,


**Sub:** Certificate of synchronization of your 3kW SRTPV system under NET METERING BASIS.

**Ref:** 1. Application Reg. No SRT-09 Dtd: 28/06/2023

2. PPA Execution date: 01/07/2023

Synchronization test of Solar Rooftop PV system of 3 kWp, installed on the roof of your installation bearing RR No: **VMHEH11287** has been conducted and your SRTPV system has been found satisfactory and successfully synchronized with the CESC grid at 240V voltage on **05.07.2023**.

Yours faithfully,

  
Assistant Executive Engineer (Ele)  
O&M sub-div,  
VARUNA, CESC

Copy to:

1. General Manager (Commercial), Corporate Office, CESC, Mysuru-570017
2. EEE, O&M NRM div, CESC, Mysore
3. OC/MF ✓

ನೋಂದಾಯಿತ ಕಛೇರಿ : ನಿಗಮ ಕಾರ್ಯಾಲಯ, ನಂ. 29, ವಿಜಯನಗರ , 2ನೇ ಹಂತ, ಹಿಂಕಲ್ ಮೈಸೂರು-570017  
Registered Office : Corporate Office, #29, Vijayanagara, 2<sup>nd</sup> Stage , Hinkal, Mysuru-570017

ವಿವರಣೆ ಸರಬರಾಜು  
ಯಮಿತ,  
ಸರ್ಕಾರದ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ  
ಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಎ)  
ಯ ಮತ್ತು ಪಾಲನೆ, ವರುಣ ಉಪವಿಭಾಗ,  
ವಿ.ಸ.ನಿ.ನಿ.ಮೈಸೂರು - 570017  
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ಮಾಂಕ : ಸಕಾಇಂ(ಎ)/ಸಇಂ(ತಾ)/2023-24/

1205

ದಿನಾಂಕ : 03-07-2023

TO,

NIKHIL PRABHU V  
#22&23, MN LAYOUT, HANCHYA,  
MYSURU  
9620182781

Madam/Sir,

- Sub: Approval for installing Solar RTPV system of 3kWp Capacity to the installation bearing RR No VMHEH11287 under Net metering.
- Ref: 1. Application Reg. No SRT-09 Dtd: 28.06.2023  
2. Revenue Report of AAO Varuna O&M Sub-Division, CESC dated: 28.06.2023  
3. Technical feasibility Report of SO Mellalli O&M section, CESC Mysore dated:29.06.2023  
4. PPA executed date.: 01.07.2023

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With reference to your application, Approval is herewith accorded, after verifying the technical feasibility Report submitted by Section Officer, Mellalli O& M Section, CESC vide ref 3) and as per PPA executed for installing Solar RTPV system of 3kWp on the rooftop of your existing installation bearing RR No VMHEH11287 with sanctioned load of 4kW under Net Metering for the Net energy at Rs 4.50per kwh with the following conditions:

25. As per CEA guidelines, you are responsible for planning, design, construction, reliability, protection and safe operation of all the equipment's subject to the regulations for construction, operation, maintenance, connectivity and other statutory provisions.
26. You can select reputed system installer of your choice, who has experience in design, supply, installation and commissioning of SRTPV system.
27. Up gradation of infrastructure, if required, (service main, meter with CT, upgrade) up to the grid connectivity point is to be done at your cost.
28. Technical and Interconnection Requirements of the equipment's shall be as per the Clause (1) of PPA vide ref (4) and **Annexure-1** (enclosed).
29. The work of grid connectivity shall be carried out in accordance with the Net- metering schematic diagram available in CESC website.
30. In Net -Metering system, Bi-directional meter (whole current/ CT operated) shall be provided

- before the point of interconnection and the existing meter shall be shifted to the generation side of SRTPV plant to measure solar power generation.
31. Both the meters shall be within the same proximity and easily accessible for taking monthly reading by the meter reader.
32. The Applicant shall provide Bi-directional check meter in series with the proposed Bi-directional meter (Main meter) when the SRTPV system capacity is more than 20 kWp.
33. As per KERC (Implementation of Solar Rooftop Photovoltaic Power Plants) Regulations, 2016 clause 5(3), the SRTPV plant shall be commissioned within 180 days from the date approval PPA i.e. **within 26/12/2023**

**Note:**

- a. SRTPV capacities from **1kWp to 499 kWp** - Within 180 days from the date of PPA.
- b. SRTPV capacities **500kWp & above upto 2000kWp** - As specified in the KERC approval letter.
34. After completion of the work in all respects, you have to submit the work completion report in **Format - 8** along with following documents:
- a. Test reports of PV modules and other equipment's (expect Grid tied inverter and bi-directional meter) as per IS/ IEC standards.
- b. Test certificate of Bi-directional meter issued by MT division, CESC.
- c. First sheet of Bank pass book containing details of Name of the Bank, Type of account, Account No, Name of the Branch, IFSC code etc.
35. CESC, Mysuru will not be held responsible for any legal disputes between the applicant and SRTPV system installer arising out of the contract.
36. **All the terms and conditions mentioned in the Power Purchase Agreement (PPA) vide ref(4) shall be complied.**

The SRTPV system is to be commissioned within stipulated period as stated above, failing which the approval will be terminated.

Yours faithfully,



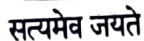
AEE (Ele)

O&M Sub-Div, VARUNA,  
CESC, Mysuru

Copy:

4. General Manager (Commercial), Corporate Office, CESC, Mysuru-570017.
5. Superintending Engineer (Elec), O&M Circle, Mysore CESC
6. Main File / OfficeCopy





## INDIA NON JUDICIAL

**Government of Karnataka**

RS. 200

## e-Stamp

Certificate No.	: IN-KA12813100632935V
Certificate Issued Date	: 01-Jul-2023 02:13 PM
Account Reference	: NONACC (FI)/ kacrsf08/ V V MOHALLA2/ KA-MY
Unique Doc. Reference	: SUBIN-KAKACRSFL0803601887113234V
Purchased by	: NIKHIL PRABHU V
Description of Document	: Article 12 Bond
Description	: POWER PURCHASE AGREEMENT
Consideration Price (Rs.)	: 0 (Zero)
First Party	: AEE CESC VARUNA SUB DIVISION MYSORE
Second Party	: NIKHIL PRABHU V
Stamp Duty Paid By	: NIKHIL PRABHU V
Stamp Duty Amount(Rs.)	: 200 (Two Hundred only)



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## POWER PURCHASE AGREEMENT FOR ROOFTOP SOLAR PV PLANT WITH NET METERING

This Power Purchase agreement is entered into at **VARUNA** on this **01.07.2023** between Chamundeshwari Electricity Supply Company Limited (CESCOM), a Government of Karnataka undertaking, being a Company formed and incorporated in India under the Companies Act-1956, with its registered office located at Mysuru, Karnataka State, represented by Assistant Executive Engineer **VARUNA Sub-Division**) hereinafter referred to as the "CESCOM", (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns), as party of the first part.

**Statutory Alert:**

1. The authenticity of this Stamp certificate should be verified at 'www.shoelastamp.com' or using e-Stamp Mobile App of Stock Holding Corporation of India Ltd. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.

1. THE GOVERNMENT OF KARNATAKA

AND

Sri. NIKHIL PRABHU. V the consumer of CESCO, residing at # **NO 22 AND 23, MN LAYOUT HANCHYA MYSORE 570026** hereinafter, referred to as the "Seller" (which expression shall, unless repugnant to the context or meaning thereof, include his successors and permitted assigns), as party of the second part.

Whereas,

- a) The Seller intends to connect and operate the Solar Roof Top Photo Voltaic (SRTPV) system with CESCO's LT Distribution system for sale of Solar Power to CESCO, in terms of the **Karnataka Electricity Regulatory Commission's (KERC) Order dated: 01-06-2023**
- b) The Seller intends to install a SRTPV system of **3 kWp** capacity on the existing roof top of the premises, situated at # **NO 22 AND 23, MN LAYOUT HANCHYA MYSORE 570019** and bearing number **RR.No. VMHEH11287** in the same premises, under **VARUNA** Sub-Division of CESCO.
- c) The Seller intends to sell the energy, generated from the SRTPV system to CESCO on **NET METERING** basis, from the date of commissioning of the SRTPV system.

**Explanation:** the 'Commissioning' means the stage at which the SRTPV system starts generating the power for the use by the Seller and injects surplus power if any, into the grid.

- d) CESCO intends to purchase the energy, generated by such SRTPV system, on net-metering basis, at the tariff determined by the KERC.

Now therefore, in consideration of the foregoing premises, the parties, hereto, intending to be legally bound, hereby agree as under:

### **1. Technical and Interconnection Requirements:**

Seller shall ensure his SRTPV system complies with the following technical and interconnection requirement and shall:

- 1.1 Comply with the applicable standards and conditions, in respect of integrating the SRTPV system with the distribution system.
- 1.2 Connect and operate the SRTPV system to CESCO's distribution system, in accordance with the State Grid code, and distribution Code as amended from time to time.
- 1.3 Install, prior to connection of SRTPV system to CESCO's distribution system, an inverter with an automatic inbuilt isolation device.
- 1.4 Provide external manual isolation mechanism with suitable locking facility, so that SRTPV system will not back-feed into the CESCO's network in case of power outage of the CESCO's distribution system, and it shall be accessible for CESCO to operate, if required, during maintenance/ emergency conditions.



ND 23, MN  
Seller" (which  
successors and  
install all the equipment of SRTPV system compliant with relevant International (IEEE/IEC) and Indian standards (BIS).

- 1.6 (a) The SRTPV system shall be designed, engineered and constructed and operated by the Seller or any other person on his behalf, with reasonable diligence, subject to all applicable Indian Laws, Rules, Regulations as amended from time to time and orders having the force of law.
- (b) The Seller, shall commission the SRTPV system, within six months from the date of approval of the PPA.

1.7 Adhere to the following power quality measures, as per the International and Indian standards and/or such other measures stipulated by KERC/ CESC:

- i. Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
- ii. Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.
- iii. Flicker: Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC standards or other equivalent Indian standards, if any.
- iv. Frequency: When the system frequency exceeds the upper limit, specified in the IEGC as amended from time to time, the SRTPV system shall shift to island mode.
- v. DC Injection: Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.
- vi. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9, shall be maintained.
- vii. The SRTPV system, in the event of voltage or frequency variations must island/disconnect itself, as per IEGC/KEGC Regulations, within the stipulated period.

## 2. Safety:

The Seller, shall comply with the following safety measures:

2.1 The Seller shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations, 2010.

2.2 The Seller shall ensure that, the design, installation, maintenance and operation of the SRTPV system, are in a manner conducive to the safety of the SRTPV system, as well as the CESC's distribution system.

2.3 If the Seller's SRTPV system either, causes damage to and/or produces adverse effects on the other consumers' or CESC's assets, Seller will disconnect SRTPV system immediately, from the distribution system, by himself or upon directions from the CESC and rectify the same at his own cost before reconnection.

## 3. Clearances and Approvals:

The Seller shall obtain CESCOT's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

#### 4. Access and Disconnection:

4.1 CESCOT shall have access to metering equipment and disconnecting device of SRTPV system, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to a disconnecting device either, automatic or manual, the CESCOT shall have the right to disconnect power supply to the premises.

#### 5. Liabilities:

The Seller, shall be solely responsible for availing any fiscal or other incentive provided by the State/ Central government, at his own expenses.

#### 6. Commercial Settlement:

##### 6.1 Tariff:

- a) **The CESCOT shall pay for the Net energy at Rs. 4.50 per kWh (Four rupees fifty Paise per kilowatt Hour), as determined by the KERC in the Order date 01.6.2023 for the term of this agreement.**
- b) If for any reason the date of commissioning is delayed, beyond the date of commissioning agreed, the tariff payable by the CESCOT shall be lower of the:
  - i) Tariff agreed to in this agreement.
  - OR
  - ii) Any revised tariff, determined by the Commission, prevailing on the date of commissioning.
  - OR
  - iii) 90% of the tariff agreed to in this agreement.
- c) The Seller, shall pay the Electricity tax and other statutory levies, pertaining to SRTPV generation, as may be levied from time to time.
- d) The Seller shall not have any claim for compensation, if the Solar power generated by his SRTPV system could not be absorbed by the distribution system due to failure of power supply in the grid/ distribution system for the reasons, such as line clear, load shedding and line faults, whatsoever.

#### 7. Metering:

7.1 The Seller, shall arrange to shift the existing meter to the generation side of SRTPV plant to measure solar power generation and install Bi-directional meter (whole current/CT operated) at the point of interconnection to the distribution system, at a suitable place in the premises, accessible for recording export of energy, from the SRTPV system to the grid and import of energy to the premises of the consumer from the grid. The bi-directional meter, shall comply with the Central Electricity



Authority (Installation and operation of meters) Regulations, 2006 and shall have the following features:

- i. Separate registers, for recording export and import energy with facility to download by Meter Reading Instrument (MRI).
- ii. kVA, kW and kVAR measuring registers for both import and export.
- iii. The Meter shall have RS232 (or higher) communication optical port / Radio Frequency (RF) port to support Automatic Meter Reading (AMR).

## 8. Billing and Payment:

8.1 CESCO shall issue monthly electricity bill for the net energy on the scheduled date of meter reading.

8.2 In case, the exported energy is more than the imported energy, CESCO shall pay for the net energy exported, as per Tariff agreed in this agreement, within 30 days from the date of issue of bill, duly adjusting the fixed charges and electricity duty, if any.

8.3 In case, the exported energy is less than the imported energy, the Seller shall pay CESCO for the Net energy imported as per the prevailing retail supply tariff, determined by the Commission from time to time.

8.4 The CESCO shall pay interest at the same rates, as is being levied on the consumers, for late payment charges, in case of any delay in payment beyond 30 (thirty) days period from the date of issue of bill, for the Net energy exported.

**Explanation:** Net metered energy means the difference of meter readings of energy injected by the SRTPV system into the grid (export) and the energy drawn from the grid for use by the Seller (import) recorded in the bi-directional meter.

## 9. Term and Termination of the Agreement:

9.1 This agreement, shall be in force for a period of **25 years from the date of commissioning of the SRTPV system**, unless terminated otherwise, as provided here under.

9.2 If the CESCO commits any breach of the terms of the Agreement, Seller shall serve a written notice specifying the breach and calling upon the CESCO to remedy/ rectify the same, within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, Seller may terminate the agreement by delivering the termination notice, if the CESCO fails to remedy/ rectify the same.

9.3 If the Seller commits any breach of the terms of the Agreement, CESCO shall serve a written notice specifying the breach and calling upon the Seller to remedy/ rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, the CESCO may terminate the agreement by delivering the termination notice, if the Seller fails to remedy/ rectify the same.



