

**POWER PURCHASE AGREEMENT FOR ROOFTOP  
SOLAR PV PLANTS WITH NET METERING ARRANGEMENT**

This Power Purchase agreement is entered into at (**Place**) \_\_\_\_\_ on this .....**day** of **Date:** \_\_\_\_\_ between .Chamundi Electricity Supply Company Limited, Mysore (CESC, Mysore), a Government of Karnataka undertaking, being a Company formed and incorporated in India under the Companies Act-1956, with its registered office located at No : 29, Vijaynagar 2<sup>nd</sup> Stage, Hinkal, Mysore-570017 Karnataka State, represented by Assistant Executive Engineer/ Executive Engineer, O&M Sub-Division/ Division, ..... CESC, Mysore hereinafter, referred to as the "CESC, Mysore" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) as party of the first part

AND

**(Name), the consumer of CESC ,Mysore residing at (address) .....** hereinafter referred to as the "Seller" (which expression shall, unless repugnant to the context or meaning thereof, include its 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 CESC, Mysore HT/LT Distribution system for sale of Solar Power to CESC, Mysore in terms of the Karnataka Electricity Regulatory Commission (KERC) Order No. S/03/01 dated:18.05.2018.

b. The Seller intends to install a SRTPV system of **KWp** capacity on the existing roof top of the premises situated at.....and bearing **RR.No:** .in the same premises under ..... Sub - Division of CESC, Mysore

c. The Seller intends to sell the energy generated from the SRTPV system to CESC, Mysore on net metering concept, from the date of commissioning of the SRTPV system.

**Explanation:** 'The Commissioning' means the stage at which the SRTPV system status generation the power for the use by the seller and injects surplus power if any, into the grid.

d. CESC, Mysore 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 Inter connection 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 CESC, Mysore'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 CESC, Mysore 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 CESC, Mysore's network, in case of power outage of the CESC, Mysore's distribution system, and it shall be accessible for CESC, Mysore to operate, if required, during maintenance / emergency conditions.

1.5 Install all the equipment of the SRTPV system, compliant with relevant International (IEEE/IEC) and Indian standards (BIS).

1.6 (a) 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 the KERC/ CESC, Mysore:

- a. Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
- b. Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.
- c. 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
- d. 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.
- e. 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.
- f. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.
- g. 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, Mysore'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, Mysore's assets, Seller will disconnect SRTPV system immediately from the distribution system by himself or upon directions from the CESC, Mysore and rectify the same at his own cost before reconnection.

## **3. Clearances and Approvals**

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

## **4. Access and Disconnection**

4.1 CESC, Mysore 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 CESC, Mysore 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 CESC, Mysore shall pay for the Net energy at **Rs. \_\_\_\_\_ per** KWh as determined by the KERC in the Order dated 18.05.2018, 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 CESC, Mysore 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 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 of energy.

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 CESC, Mysore 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, CESC, Mysore 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 CESC, Mysore for the net energy imported, as per the prevailing retail supply tariff determined by the Commission from time to time.

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

**Explanation:**

Net 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 CESC, Mysore commits any breach of the terms of the Agreement, Seller shall serve a written notice specifying the breach and calling upon the CESC, Mysore 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 CESC, Mysore fails to remedy/ rectify the same.

9.3 If the Seller commits any breach of the terms of the Agreement, CESC, Mysore 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, CESC, Mysore may terminate the agreement by delivering the termination notice, if the seller fails to remedy/ rectify the same.

9.4 Upon termination of this Agreement, seller shall cease to supply power to the distribution system and any injection of power shall not be paid for by the CESC, Mysore.

**10. Dispute Resolution:** All the disputes between the parties arising out of or in connection with this agreement shall be first tried to be settled through mutual negotiation.

The parties shall resolve the dispute in good faith and in equitable manner.

In case of failure to resolve the dispute, either of the parties may approach the appropriate Forum.

IN WITNESS WHEREOF, the Seller and the CESC, Mysore have entered into this Agreement to be executed as of the date and year first set forth above.

For AND ON BEHALF OF	
For CESC, Mysore	For SELLER
By : Name: Designation: Address:	By : Designation : Address:
WITNESS: In Presence of Name  Designation :	WITNESS: In Presence of Name  Designation :
WITNESS: In Presence of Name Designation :	WITNESS: In Presence of Name Designation :