

**CHAMUNDESHWARI ELECTRICITY SUPPLY COR. LTD.**  
(A Government of Karnataka Undertaking)

Phone: 08232-233611  
Fax: 08232-233600  
Email: eeemdy@cescmysore.org



Office of the  
Executive Engineer [Elel],  
Maddur Division, Maddur.

No: EEE/MDR/AEE (O)/AE-T/2016-17/ **10689-691** Date:

**27 JAN 2017**

To,

Sri Nagesh, S/O Channegowda  
STS Poultry farm  
Near Sunnadoddi Gajanoor village  
Malavalli Taluk, Mandya District.

Sub: Approval for commissioning 500 KWP solar RTPV system.

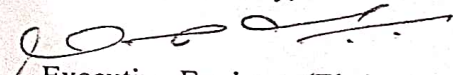
Ref: 1. This office approval letter No.: EEE/MDR/AE-T/2016-17/10647  
dtd: 25.01.2017

2. RR No. & Account ID: MHT-135

3. Your work completion letter . dtd: 23.1.2017 for 500\_kWp of Solar RTPV

After verifying, all the documents submitted by you, system is approved for arranging testing, commissioning and synchronization of the SRTPV system with CESC grid.

Yours faithfully,

  
Executive Engineer (Ele.)  
CESC, O&M Division,  
Maddur.

Copy submitted to:

1. General Manager (Tech), Corporate office, CESC, Mysore.
2. Superintending Engineer Elec., Commercial, CESC, Mysore

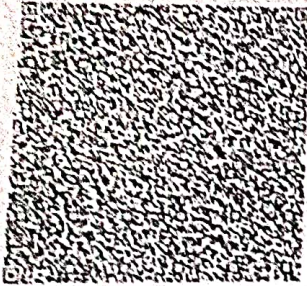




# Government of Karnataka

## e-Stamp

Base Certificate No. : IN-KA935664335-495600  
 Certificate No. : IN-KA935716052508630  
 Certificate Issued Date : 28-Jan-2016 04:22 PM  
 Account Reference : NONAGO (FI)/ kacrs1108/ MALAVALLI/ KA-MN  
 Unique Doc. Reference : SUBIN-KAKACRSFL08361253440517450  
 Purchased by : C NAGESH  
 Description of Document : Article 12 Bond  
 Description : AGREEMENT  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : C NAGESH  
 Second Party : E E CESCO MADDUR  
 Stamp Duty Paid By : C NAGESH  
 Stamp Duty Amount(Rs.) : 200  
 (Two Hundred only)



Sri Srikantheshwara Multipurpose  
 Co-operative Society Ltd.,  
 Malavalli, 571 430, Mandya Dist.

Please write or type below this line

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

Sr. No. 78/8

This power purchase agreement is entered into at Gajanur village on this 28-01-16 day  
 of C.Nagesh S/o Channegowda between chamundeshwari Electricity Supply Company  
 Limited (CESC) A Government of Karnataka Undertaking a company formed and  
 incorporated in india under the Companies Act -1956 with its registered office located at  
 Mysore, Karnataka state, herein after referred to as the "CESC" (which expression shall,  
 unless repugnant to the context or meaning thereof, include its successors and permitted  
 assings) as party of the first part represented by :

#### Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.sticstamp.com". Any discrepancy in the details rendered on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀನಿಯಾ (ಎ)  
 ಜಿ.ಎ.ಎಸ್.ಸಿ.ಸಿ. ಕಾ ಮತ್ತು ಕಾ ಮದ್ದೂರು - 571 428.



C.Nagesh the consumer of CESC residing at Gajanur village and post, Kasaba Hobli, Malavalli Taluk, Mandya District and 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

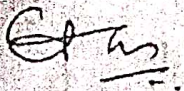
- a. The seller intends to connect and operate the solar Roof top photo Voltic (SRTPV) system with CESC's HT/LT Distribution system for sale of solar power to CESC in terms of the Karnataka Electricity Regulatory commission (KERC) order No. S/03/01/2013 dated 10-10-2013 or as amended from time to time.
- b. The seller intends to install/has installed a SRTPV system of 500 KWp capacity on the roof top of the premises situated at Gajanu and connected to electricity service connection bearing number \_\_\_ in the same premises under Malavalli Rural sub Division of CESC.
- c. The seller intends to sell net energy exported from the SRTPV System to CESC as recorded in the bi directional meter installed in the seller's premises, from the date of commissioning of the SRTPV System.
- d. CESC intends to purchase net energy exported by such SRTPV System 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 standards and conditions in respect of integrating the SRTPV system which the grid/ distribution system.
- 1.2 Connect the SRTPV system to CESC's distribution system and shall be bound by requirements of state Grid and distribution code as amended from time to time.
- 1.3 Install, prior to connection of SRTPV system to CESC's distribution system an inverter with an automatic inbuilt isolation devise.
- 1.4 Provide external manual isolation mechanism with suitable locking facility so that SRTPV system will not back feed into the CESC's network in case of power outage of the CESC's distribution system and it shall be accessible for CESC to operate, if required, during maintenance/emergency conditions.
- 1.5 Install all the equipments of SRTPV system complaint with relevant international (IEEE/IEC) and Indian standars (BIS)
- 1.6 SRTPV system shall be designed, engineered and constructed and operated by the sller on his behalf with reasonable diligence subject to all applicable Indian laws, rules,





ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಎ)  
ಕಾ.ವಿ.ಸ.ನಿ.ನಿ., ಕಾ ಮವು ಪಾ ವಿಭಾಗ,  
ಮದ್ದೂರು - 571 428.



regulations as amended from time to time and orders having the force of law.

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

- 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 should'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 Distributions system frequency deviates outside the specified conditions (50.05 Hz on upper side and 47.5 Hz on lower side) 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 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.
- 1.8 The SRTPV system the event of voltage or frequency variations must island/ disconnect itself as per IEC standards within the stipulated period.

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 safety of the SRTPL 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 consumer's or CESC's assets, Seller will disconnection 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 CESC's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

#### Access and Disconnection

- 1 CESC shall have access to metering equipment and disconnecting device of SRTPV system, both automatic and manual, at all times.
- 2 In emergency or outage situation, where there is no access to a disconnecting device either automatic or manual, the CESC shall have the right to disconnect power supply to the premise.

#### Liabilities


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

#### Commercial Settlement-

##### Tariff:

The CESC shall pay for the net metered energy at Rs.9.56 per unit/KWh as determined by the RC for the term of the agreement.

The Seller shall pay the Electricity tax and other statutory levies, pertaining to SRTPV generation, as may be levied from time to time.

  
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ಮಾನ್ಯ - 5/1/18



The Seller shall not have any claim for compensation, if the Solar power generated by 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 parties shall arrange to shift the existing meter to the generation side of SRTPV to measure solar power generation and install Bi-directional meter (whole current/ CT operated) for recording export and import of energy at the point of interconnection to the distribution system. 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 master Reading instrument (MRI).
  - ii. KVA, KW and KVAR measuring registers for both import and export.
  - iii. Meter shall have RS232 (or higher) communication optical port/Radio Frequency (RF) port to support Automatic Meter Reading (AMR)
- 7.2 The seller shall install the meter of SRTPV system and bi directional meter in separate meter boxes in the same proximity or at a suitable place in the premises accessible for the purpose of recording the reading whenever necessary.

#### 8. BILLING AND PAYMENT:

- 8.1 CESC shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading.
- 8.2 In case, the exported energy is more than the imported energy, CESC shall pay for the net energy exported as per Tariff agreed in this agreement within 30 days of issue of bills 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 for the net imported energy as per the prevailing retail supply tariff determined by the Commission from time to time.
- 8.4 CESC 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 for the net energy exported beyond 30 (Thirty) days period from the date of issue of bill.

**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 commissioning of the SRTPV system unless terminated otherwise as provided here under.
- 9.2 The seller shall have the right to terminate this agreement at any time by serving a written notice 60 (sixty) days in advance to CESC.
- 9.3 If the Seller commits any breach of the terms of the Agreement, CESC 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 CESC may terminate the agreement by delivering the termination notice, if the seller fails to remedy/rectify.
- 9.4 Upon termination of this Agreement, seller shall disconnect the SRTPV system from the

*Signature*

*Signature*



Distribution system and intimate the same to CESCO

**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 of law.

IN WITNESSES WHEREOF the seller and the CESC have entered into this agreement executed on the date and year first set forth above.

**For AND ON BEHALF OF  
CHAMUNDESHWARI Electricity  
company Limited**

**For AND ON BEHALF OF SELLER**

By: N. [Signature]  
Designation: ನಿರ್ಮಾಪಕ ಇಂಜಿನಿಯರ್ (ವಿ)  
Address: ಕಾರ್ಖಾನೆ ನಿರ್ಮಾಪಕ ಇಂಜಿನಿಯರ್ (ವಿ)  
ಕಾ.ವಿ.ಸ.ವಿ.ಸಿ., ಕಾ ಮತ್ತು ಪಾ ವಿಭಾಗ,  
ಮದ್ದೂರು - 571 428.

By: [Signature]  
Name : C.Nagesh  
S/o Channegowda  
Gajanur village and post  
Kasaba Hobli  
Malavalli Taluk  
Mandya District

**WITNESS**

In the presence of

Name :

Designation

**WITNESSES**

In the presence of

Name :

Racharaj N. Karpur  
Chatturathi

**WITNESSES**

In the presence of

Name

Designation

**WITNESSES**

In the presence of

Name :