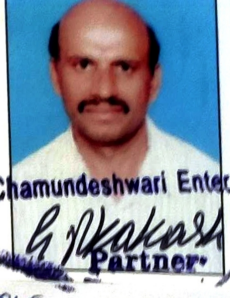
CHAMUNDESHWARI ELECTRICITY SUPPLY CORPORATION LIMITED
(A Government, of Karnataka Undertaking)
Format-1



pplication Form for Grid Connectivity Solar Roof Top PV eneration system on Net Metering Basis

Application NO: 04/ dt 29-12-2015
ARF Rs 2000/- RT NO: 1340100134888 dt 29.12.

Applicant Details

☐ Individual	☐ Company / Trust / Co-operative	☐ Partnership
Name of the Applicant	SRICHAMUNDESHWARI	
	ENTERPRISES	

Address & Contact details:

House/Flat/ Shop No		Cross	
Main	Location		
Street	City	RANGASAMUDR	
Landmark		Pin code	
Land Line Ph.No	Mobile	9620992811	
Email			

2. Installation Details

Sub-division	BANNUR
Section	TUMBLA
RR Number	
Account ID No.	
Sanctioned Load in kW:	Contract Demand in KVA:
☐ Single Phase	☐ Three phase

Category of Installation (please tick (V) on the appropriate box)

☐ Commercial ✓	☐ Industrial	☐ Others

(Above installations must be other than Domestic/Hospital/Educational Institutes)

3. Rooftop System details *(please tick on the appropriate box and fill details)*

Proposed Capacity of Solar RTPV power plant in kW peak:			
Type of Installation	☐ Single phase LT (Up to and inclusive of 5kWp)	☐ Three phase LT (above 5kWp up to 50kWp)	☑ HT(above 50kWp up to 1000kWp) 300 kwp
Approximate shadow free area of Rooftop in sq. mt/Sq Ft:		35,000 sq. ft	

Subsidy

Whether applicant wish to avail MNRE subsidy	☐ Yes	☑ No
Whether MNRE Subsidy is sanctioned or not	☐ Yes	☑ No

Documents enclosed:

1	Copy of latest Electricity bill	☐ Yes	☑ No
2	Authorization letter in case of company/Trust/ Co-operatives / Partnership	☑ Yes	☐ No
3	Copy of the Subsidy sanction letter from MNRE	☐ Yes	☑ No
4	Self-certification for not availing subsidy from MNRE	☑ Yes	☐ No

Certificate:

1. The above stated information's are true to best of my knowledge. If information furnished in the application found faulty/false, my application is liable for rejection. Further, even after commissioning of SRTPV Plant I will inform the CESC, Mysore before taking up of any alteration work in my roof.
2. Certified that my building can take up the proposed weight of Solar PV system.
3. I have enclosed 2 photos of My building's roof top.
4. Enclosed roof top sketch with dimensions.
5. Enclosed recent electricity bill copy.

Place: BANNUR

Date: 29.12.2015

For Sri Chamundeshwari Enterprises

Signature of the applicant

Name: G. Prakash

Partner

SRI CHAMUNDESHWARI ENTERPRISES
Sy. No. 92/2, Ranganatha Pura Village
Kasaba Hobli, T. Narasipura Tq.,
Mysore District-571 101

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

सत्यमेव जयते

Certificate No.	:	IN-KA20933354766450O
Certificate Issued Date	:	21-Mar-2016 12:52 PM
Account Reference	:	NONACC (FI)/ kaksfcl08/ MYSORE/ KA-MY
Unique Doc. Reference	:	SUBIN-KAKAKSFCL08912096269393360
Purchased by	:	SRI CHAMUNDESHWARI ENTERPRISES
Description of Document	:	Article 12 Bond
Description	:	AGREEMENT
Consideration Price (Rs.)	:	0 (Zero) CESC
First Party	:	CEFT MYSORE
Second Party	:	SRI CHAMUNDESHWARI ENTERPRISES
Stamp Duty Paid By	:	SRI CHAMUNDESHWARI ENTERPRISES
Stamp Duty Amount(Rs.)	:	200 (Two Hundred only)

----------Please write or type below this line----------

POWER PURCHASE AGREMENT FOR ROOFTOP SOLAR PV PLANTS

WITH

NET METERING ARRANGEMENT

This power purchase agreement is entered into at Nanajangud on this day 29.12.2015 21.03.2016 between Chamundeshwari Electricity supply Company Limited CESCOM a Government of Karnataka

ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್
ವಿದ್ಯುನ್ಮಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ವಿಭಾಗ
ನಂಜನಗೂಡು

For Sri Chamundeshwari Enterprises
G. Mallesh
Partner

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available 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.

undertaking. A Company formed and incorporated in India under the Companies Act-1956, with its registered office located at Nanjangud Karnataka State, hereinafter referred to as the "CESCOM"

(Which expression shall, unless repugnant to the context or meaning there of include its successors and permitted assigns) as party of the first part represented by executive engineer (ele) Nanjangud

AND

G. Prakash behalf of Sri Chamundeswari Enterprises The consumer of CESCOM residing at #3832/1 Umar khyam Road Thilak nagar Mysore -570021 here in after 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 Valtaic (SRTPV) system with CESCOM'S HT/LT
Distribution system for sale of solar power to CESCOM in terms of the Karnataka Electricity Regular Commission (KERC) Order N. s/03/01/2013 dated: 10.10.2013 or amended from time to time.

b. The seller intends to install/ a SRTP system of 300 kWp capacity on the roof top of the premises situated at #92/02 Ranganathapura village(bannur-mysore road) Bannur post T Narasipura Taluk connected to electricity service connection bearing number (RR. No) in the same premises under Bannur Sub-division of CESCOM.

c. The seller intends to sell net energy exported from the SRTPV system to CESCOM. As recorded in the bi-directional meter installed in the seller's premises, from the date of commissioning of the SRTPV system.

d. CESCOM intends to purchase net energy exported by such SRTPV system at the tariff determinate by the KERC.

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

ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್
ಚಾ.ವಿ.ಸ.ವಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ವಿಭಾಗ
ನಂಜನಗೂಡು

For Sri Chamundeshwari Enterprises
Partner

Technical and interconnection Requirements

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

1.1 Comply with the standards and conditions in respect of integrating the SRTPV system with the grid/distribution system.

1.2 Connect the SRTPV system to CESCOM'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 CESCOM'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 CESCOM's network in case of power outage of the CESCOM's distribution system, and it shall be accessible for CESCOM to operate, if required, during maintenance / emergency conditions.

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

1.6 SRTPV system shall be designed engineered and constructed and operated by the seller or 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.

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

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 flicker in excess of the limits stated in the relevant section of IEC standards or other equivalent Indain standard, if any.
d. Frequency: when the Distribution system frequency deviates outside the specified conditions (50.05 Hz on upper side and 47.5 Hz on lower side), the SRTPV system shall to island mode.
e. DC Injection photovoltaic system should not inject DC power more than 0.5% if full rated 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 in the event of the voltage or Frequency variations must island/ disconnected itself as per IEC standard within the stipulated period.

For Sri Chamundeshwari Enterprises

G. Akash

Partner

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ಜೆ.ಕೆ.ಸಿ.ಎಸ್.ಸಿ.ಎಂ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ವಿಭಾಗ
ಪಂಜನಗೂಡು

2. Safety.

The seller shall comply with the following safety measure:

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 CESCOM's distribution system.

2.3 If the Seller's SRTPV system either caused, damage to and/or produces adverse effects on the other consumer's or CESCOM's distribution system.

3. Clearances and Approvals

The seller shall obtain obtain CESCOM's and other statutory and clearances before connecting the SRTPV system to the distribution system.

4. Access and Disconnection

4.1 CESCOM 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 CESCOM shall have the right to disconnect power supply to the premise

5. Liabilities

The seller, shall be solely responsible for availing any fiscal or other incentive provided by the state/ Central government at this own expenses.

6. Commercial Settlement

6.1 Tariff:

a. The CESCOM shall pay for the net metered energy at Rs.9.56 per KWh as determined by the KERC for the term of the agreement.
b. The seller shall pay the electricity tax and other statutory levies. Pertaining to SRTPV generation as may be levied from time to time.
c. 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, whatever.

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ಕುಂಜನಗೂಡು

For Sri Chamundeshwari Enterprises
G. Prakash
Partner

d. 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 download by Meter 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 suitable place in the premises accessible for the purpose of recording the reading whenever necessary.

8. BILLING AND PAYMENT

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

8.2 In case, the exported energy is more than the imported energy CESCOM 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 CESCOM for the net imported energy as per prevailing retail supply tariff determinate by the Commission from to time.

8.4 CESCOM shall pay interest at the same rates as is being levied on 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 grid (export) and the energy drawn from the grid for use 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.

For Sri Chamundeshwari Enterprises
G. Prakash

ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಚೆ.ಕ.ಸ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ವಿಭಾಗ
ಹಂಜನಗೂಡು

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 CESCOM.

9.3 if the seller commits an breach of the terms of the Agreement CESCOM shall serve a written notice specifically the breach and calling upon the seller to remedy/ rectify the same within 30 (thirty) days or such other period from the delivery of the notice.

CESCOM 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 SRRPV system form the distribution system and intimate the same to CESCOM.

10. Dispute Resolution All the disputes between the parties arising out of or in connection with this agreement shall be first tried to settled through mutual negotiation. The parties shall resolve the dispute in good faith and in equitable manner. In case of failure or resolve the dispute, either of the parties may approach the appropriate Forum of law..

IN WITNESS WHEREOF, the seller and the CESCOM have entered into his Agreement executed on the date and year first set forth above.

For AND ON BEHALF OF Chamundeshwari Electricity Supply Company Limited	For AND ON BEHALF OF SELLER For Sri Chamundeshwari Enterprises
Signature: Name: Designation: Address:	G.Prakash Partner By: (Name): G.Prakash (Sri Chamundeshwari Enterprises) Address: #3832/1 Umarkhyam Road Thilak Nagar Mysore
WITNESS In Presence of Name: Designation:	WITNESS In Presence of Name: 3832 Umarkhyam Road Thilak Nagar Mysore
WITNESS In Presence of Name Designation:	WITNESS In Presence of Name:

Format - 8

ChamundeshwariElectricity Supply Corporation Limited, Mysore

(Government of Karnataka undertaking)

Office of the

Telephone :
Email ID :
Ref No.: Date:

Report of commissioning and synchronizing of SRTPV system

A	**Consumer Details**		
1	Name of the Consumer	Sri Chamundeswari enterprises Ranganathapura village	
2	Category	Commercial	
3	RR No./Account ID/Connection ID	HTR-134	
4	Pole Number	–	
B	**Meter Details**	**Net Meter (Bi-directional Meter)**	**Solar Generation side Meter**
1	Meter make: 1ph / 3 ph	L&T, 3ph	Landis +Gyr LTD
2	Type	DLMS, ABT Compliance	LGM-405 3x240V, 5A 0.5S
3	Serial number	Main meter:- 16196820 Check -" 16196744	P 0053131
4	Capacity	3X63.5V, 1A	3x240V, 5A. 0.5S
5	Meter constant	2000	120
6	Initial reading (Tri vector parameters)		
	i) Import	Main 000000.18 check 000000.15	
	ii) Export	Main 000000.10 check 000000.10	0000000.3
C	**Grid Tied Inverter**	6 Numbers	
1	Make	Delta, RPI M50A_12S	
2	Serial number	① 03616902369WC ② 03616902383WC ③ 03616902504WC ④ 03616902591WC	
3	Capacity	⑤ 0361690250WC ⑥ 03616902386WC	

50A * 2 Max

4	Input voltage	DC input 200-1000V dc. MPPT 520-800Vdc, 1000Vdc Max. 50A x 2 max
5	Output voltage	AC output 230/400Vac. 50/60Hz 80A Max, Cos ϕ - 0.8
6	Whether Anti-islanding feature is in working condition	Yes/No
D	**PV Module**	
1	Make	
2	Serial number	
3	Type of module	
4	Capacity of each module	
5	Number of modules	
6	Total capacity of module	
E	Earthing verified: DC earthing, AC earthing, LA earthing of SRTPV system	Yes/No ✓
F	Details of protective system available	• AC & DC DB: Yes/No ✓ • Manual Switch solar side: Yes/No ✓ • Relay operated automatic switch at net-meter side: Yes/No
G	CEI, GoK/AEE, CESC inspection& approval letter obtained	Yes/No ✓
H	Work completion report of SRTPV system obtained from agency	Yes/No ✓
I	Date of synchronizing with CESC grid	dd/mm/yyyy 21. 12. 2016

Encl:- 1) CEI, GoK /AEE approved Single line diagram of SRTPV system.
2) CEI, GoK/ AEE approved letter for commissioning.
3) Specification sheets of all equipments and manufacture's test reports.
4) Copy of the net-meter test reports.
5) Work completion report of Solar RTPV system from system installer.

Executive Engineer
M.T. Division
CESC, Mysore-570 011

21/12/2016

AEE(Ele.)/EE(Ele.)
MT Division, ………………….,CESC

AEE(Ele.)/EE(Ele.)
O&M……………,CESC

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಕಾ ಮತ್ತು ಪಾ ಉಪವಿಭಾಗ, ಚಾ.ವಿ.ಸ.ನಿ.ನಿ.
ಚಾ.ವಿ.ಸ.ನಿ.ನಿ., ನಂಜನಗೂಡು ವಿಭಾಗ

Copy submitted to:

1. Chief Engineer (Elect), Load dispatch Centre, KPTCL, Anand Rao Circle, Bangalore.
2. General Manager(Tech), Corporate office, CESC,Mysore.
3. Superintending Engineer.,Commercial, Corporate office, CESCOM, Mysore.
4. EE, O & M……………………….. Division, CESC.