CHAMUNDESHWARI ELECTRICITY SUPPLY CORPORATION LIMITED, MYSORE

(A Government of Karnataka Undertaking)

Format-1

Application Form for Grid Connectivity Solar Roof Top PV

Generation system on Net Metering Basis

1. Applicant Details 6837/25.7.15



□Individual		Company / Trust / Co-operative																					
Name of the Applicant	P	R	Ti	IM		1		T	ope	rati	ve			□P	arti	ner	ship)					
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Address & Contact de	etails	:										0.50						121-0			. 2 190		,

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Landmark Land Line Ph.No			+		-						Pir	cod	le						
Email								Mobile	е	9	7	3	1	3	6	8	9	3	3

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Installation Details 2.

Sub-division	BANNUR					
Section						
RR Number	TBCHL 2608					
Account ID No.						
Sanctioned Load in kW:	tioned Load in kW: Contract Demand in KVA:					
Single Phase	☐ Three phase					
Category of Installation (please tick	($$) on the appropriate box)					
Residential	Commercial (Sourcy)	☐ Industrial				
Educational Institution	☐ Government Organization	☐ Others				

3. Rooftop System details(please tick (√) on the appropriate box)

roposed Cana	city of Solar RTPV power plant in	kW peak:			
ype of nstallation		Three phase LI	□HT(above 50kWp upto 500kWp)		
pproximate sl	nadow free area of Rooftop in sq. 1	nts: 315 Sq.	Melae		

Subsidy 3.

Whether applicant wish to avail MNRE subsidy Whether MNRE Subsidy is sanctioned or not	
Yes	D No
Documents enclosed:	□ No

1	Copy of latest Electricity bill			
2	Authorization letter in case of company/Trust/ C-	Ves	□ No	
3	Copy of the Subsidy sanction letter from MNRE	Pyes	□ No	
4	Self-certification for not availing subsidy from MNRE	☐ Yes	□ No	NIL
	subsidy from MNRE	D Yes	□ No	

Certificate:

The above stated information's are true to best of my knowledge.

Certified that my building can take up the proposed weight of Solar PV system.

Place: YACHENAHMLY

22.07.2015 Date:

Name: Y. K. K. YATHE GAWDA ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಾಹಣಾಧಿಕಾರಿ ಪ್ರಾಥಮಿಕ ಕೃಷಿ ಪತ್ತಿನ ಸಹಕಾರ ಸಂಘ ನಿ. ಯಾಚೇನಹಳ್ಳಿ, ತಿ. ನರಸೀಪುರ ತಾಲ್ಲೂಕು ಮೈಸೂರು ಜಿಲ್ಲೆ.



Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

Stamp Duty Amount(Rs.)

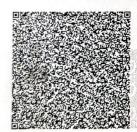
INDIA NON JUDICIAL Government of Karnataka

e-Stamp

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- 06-Oct-2015 11:48 AM
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- SUBIN-KAKACRSFL0820975038935988N
- A E E O AND M SUB DIVISION BANNUR CESCOM
- Article 12 Bond
- **AGREEMENT**
- - (Zero)
- A E E O AND M SUB DIVISION BANNUR CESCOM
- C E O YACHENAHALLI P A C C S
- A E E O AND M SUB DIVISION BANNUR CESCOM

(Two Hundred only)





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

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

This Power Purchase agreement is entered into at YACHENAHALLY on thisday of OCTUBER 3015 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 hereinafter referred to as the "CESC", (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) as party of the first part represented by AND The Primary Agricultural Crequit

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ಚಾಂ. ವಿ. ಸ. ನಿ. ನಿ., ಬನ್ನೂರು-571 101

ಯಾಚೇನಹಳ್ಳಿ, ತಿ. ನರಸೀಪುರ ತಾಲ್ತೂ

- 1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details of t
- The onus of checking the legitimacy is on the users of the certificate.
- 3. In case of any discrepancy please inform the Competent Authority.

Cooperative Society the consumer of CESC located/residing at Yachenahally, T Narasipura Tq, Mysore District. 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'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 10kWp capacity on the roof top of the premises situated at Yachenahally, T Narasipura Tq, Mysore District And connected to electricity service connection bearing number RR.No- in the same premises under Bannuru 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 with the grid/distribution system.
- 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 ESCOM'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 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.
- Adhere to the following power quality measures as per the International and Indian standards and/or such other measures stipulated by KERC/CESC:
- Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
- Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.
- 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.
- 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 shift to island mode.
- 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.

Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.

ಹರ್ಯನಿರ್ವಾಹಕ ಇಂಚಿನಿಯರ್ (ಎ.)

ಕಾ. ಮತ್ತು ಪಾ. ಉಪ ವಿಭಾಗ ಚಾಂ. ವಿ. ಸ. ನಿ. ನಿ., ಬನ್ನೂ ರು-571 101

ಪ್ರಾಥಮಿಕ ಕೃಷಿ ಪತ್ತಿನ ಸಹಕಾರ ಸಂಘ ನಿ. ಯಾಚೀನಹಳ್ಳಿ, ತಿ. ನರಸೀಪುರ ತಾಲ್ಡೂಕು ಮೈಸೂರು ಜಿಲ್ಲೆ.

1.8 The SRTPV system in 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 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 CESC's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

4. Access and Disconnection

4.1 CESC 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 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 his own expenses.

6. Commercial Settlement-

6.1 Tariff:

- a. The CESC 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, 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 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 a suitable place in the premises accessible for the purpose of recording the reading whenever necessary.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಂಜಿನಿಯರ್ (ಎ)

ಶಾ. ಮತ್ತು ಪಾ. ಉಪ ವಿಭಾಗ ಚಾಂ. ವಿ. ಸ. ನಿ. ನಿ., ಬನ್ನೂ ರು-571 101 ಮುಖ್ಯ ಕಾಯಾನಿರ್ವಾಹಡಾಧಿಕಾರಿ ಪ್ರಾಥಮಿಕ ಕೃಷಿ ಪತ್ತಿನ ಸಹಕಾರ ಸಂಘ ನಿ. ಯಾಚೇನಹಳ್ಳ, ತಿ. ನರವೀಪುರ ತಾಲ್ಲೂ ಕು

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 of 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 such other period from the delivery of the notice,

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 distribution system and intimate the same to CESC.

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 WITNESS WHEREOF, the Seller and the CESC have entered into this Agreement executed on the date and year first set forth above.

LOL WAD ON REHALF OF ZETTEK
y K. Krook C sound
By: ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಾಹಣಾಧಿಕಾರಿ
RR No: ಪ್ರಾಥಮಿಕ ಕೃಷಿ ಪತ್ತಿನ ಸಹಕಾರ ಸಂಘ ನಿ.
Address: ಯಾಚೇನಹಳ್ಳಿ, ತಿ. ನರಸೀಪುರ ತಾಲ್ಲೂಕು
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ChamundeshwariElectricity Supply Corporation Limited, Mysore

(Government of Karnataka undertaking)

Office of the

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

ಬನ್ನೂರು

dephone: 08237-275507

mail ID : texchannus & gmall com

of No. :Date: 601(A) 02.10. 2015

Report of commissioning and synchronizing of SRTPV system

Consumer Details	
Name of the Consumer	PRIMARY AGRICULTURAL CREDI
Category	ev e e e e e e e e e e e e e e e e e e
RR No./Account ID/Connection ID	TBCHL2608
Pole Number	
Meter Details	Net Meter (Bi- directional Meter)
Meter make: 1ph / 3 ph	SECURE GENUS
туре	E3D108 03B
Serial number	BES79691 A3026512
Capacity	10-60 Amps 5-30 Amps
Meter constant	800 Anges/kwh 1200 Anges/kwh
Initial reading (Tri vector parameters)	
i) Import	2.381517 Kuch 000002.5 Kg
ii) Export	1.647423 Kul NA
Grid Tied Inverter	
Make	DELTA POWER SYSTEM
Serial number	DIM15500617 WE
Capacity	IOKO

Tt waltage	
Input voltage	DC 200-1000 nolle
Output voltage	AC 415-800 volle
Whether Anti-islanding feature is in working condition	Yes/No MES
PV Module	
Make	HHV SOLAR
Serial number	1615×L60 FPB087
Type of module	POLY CRYSTALINE
Capacity of each module	250 Walts
Number of modules	40
Total capacity of module	10 KW
Earthing verified: DC earthing, AC earthing, LA earthing of SRTPV system	Yes/No YES
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
CEI, GoK/AEE, CESC inspection& approval letter obtained	Yes/No YES AEE OLM
Work completion report of SRTPV system obtained from agency	Yes/No YES
Date of synchronizing with CESC grid	dd/mm/yyyy 07/10/2015

1:-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.

C(Ele.)/EE(Ele.)

Sistair Executive Engineer (Eis),

T. Rating Sub-Division-2, C.E.S.C.,

Jyothi Nagar, Mysore-11

y submitted to:

AEB(EIe.)/EE(Ele.)

NOSM FOUNTAINE CESCUT (2.)

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Chief Engineer (Elect), Load dispatch Centre, KPTCL, Anand Rao Circle, Bangalore. General Manager(Tech), Corporate office, CESC, Mysore.

Superintending Engineer., Commercial, Corporate office, CESCOM, Mysore.

EE, O & M. Nanjanagudu. Division, CESC.