

Form - 2

Agreement From for Solar Roof-top Net Metering

This Agreement is made and entered into at (location) **Foundation of Life Science & Business management, Bajhol, oachghat, Solan, HP** on this (date) **02 of July 2018** between **Foundation of Life Science & Business management** who is a consumer of the distribution licensee with sanctioned contract demand of **490 kVA** at his premises (Address) **Anand Complex, Near Head Post Office, The Mall, Solan, Himachal Pradesh-173212** as First party, and **Foundation of Life Science & Business (FLSBM)** distribution licensee (herein after called as **HPSEBL, ED Solan, HBSEBL** (Name of DISCOM) and having its registered office at , **ED Solan, Himachal Pradesh** as Second party of the agreement

And whereas the **HPSEB ED Solan (DISCOM)** agrees to facilitate the **Rooftop Solar PV Energy Generator** for the electricity generated from his **Rooftop Solar PV Grid Interactive System** of capacity **392 KW**, and as per the conditions of this agreement and net – metering regulations/orders issued by the **Himachal Pradesh Electricity Regulatory Commission**.

Both the parties hereby agree to as follows;

1. Eligibility

1.1 Eligibility for net – metering shall be as specified in the **Himachal Pradesh Electricity Regulatory Commission (Rooftop Solar PV Grid Interactive System based on Net Metering) Regulation, 2015**. First Party is required to be aware, in advance, of the standards and conditions his system has to meet, for being integrated into grid/distribution system.

2. Technical and Interconnection Requirements

2.1 First Party agrees that his **Solar PV generation plant and net – metering system** will confirm to the Standards and requirements mentioned in the following Regulations, codes, LOA and any other relevant provisions and also that he shall be continued to be governed by all such regulations, codes and other relevant provisions;

- i) The Central Electricity Authority (Technical Standards for connectivity of the Distributed Generating Resources) Regulations, 2013;
- ii) The Central Electricity Authority (Installation and Operation OF meters), Regulation 2006;
- iii) The Himachal Pradesh Electricity Distribution Code, 2008.
- iv) The Himachal Pradesh Electricity Supply Code, 2009 & further amended in 2014.
- v) Any other provision applicable to the electricity consumer of the distribution licensee.

2.2 First Party agrees that he has installed or will install, prior to connection of **Photovoltaic System** to Second Party's distribution system, an isolation device (both automatic and

2.3 inbuilt within inverter in case of Solar PV Generation and external manual relays) and agrees for the Second Party to have access to and operation of this, if required and for repair (Name of DISCOM) HPSEB ED Solan (ESO No-III Solan 11213) and maintenance of the distribution system.

2.4 First party agrees that in case of a power outage on Second Party's system, Photovoltaic System will shut down, automatically and his plant will not inject power into distribution system.

2.5 All the equipment's connected to distribution system must be compliant with relevant international (IEEE/IEC) or Indian standards (BIS) and installations of electrical equipment must comply with the Central Electricity Authority (Measures of Safety AND Electricity Supply) Regulation, 2010.

2.6 First Party agrees that licensee will specify the interface/interconnection point and metering point.

2.7 First Party and Second Party agrees to comply with the relevant CEA regulations in respect of operation and maintenance of the plant, drawing and diagrams, site responsibility schedule, harmonics, synchronization, voltage frequency, flicker etc.

2.8 Due to Second Party obligation to maintain a safe and reliable distribution system, eligible consumer agrees that if it is determined by the Second Party that First Party's Photovoltaic System either caused damage to and/or produce adverse effects affecting other consumers or Second Party's assets, First Party will have to disconnect Photovoltaic System immediately from the distribution system upon direction from the Second Party and correct the problem at his own expense prior to a reconnection.

3. Clearance and Approvals

3.1 First Party agrees to obtain all the necessary approvals and clearances (environmental and grid connection related) before connecting the Photovoltaic System to the distribution system.

4. Access and Disconnection

4.1 Second Party shall have access to metering equipment and disconnecting means of Photovoltaic System, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to a disconnecting means, both automatic and manual, such as a switch or breaker, Second Party may disconnect service to the premise.

5. Liabilities

5.1 First Party and Second Party will indemnify each other for damages or adverse effect from either party's negligence or intentional misconduct in the connection and operation of Photovoltaic System or Second Party distribution system.

5.2 Second Party and First Party will not liable to each other for any loss, profits or revenues, business interruption losses, loss of contract or loss of goodwill, or for indirect, consequential incidental or special damages of the said liability, loss or damage arise in contract, or otherwise.

5.3 Second Party shall not be liable for delivery or realization by First Party for any fiscal or other incentive provided by the Central/State Government beyond the scope specified by the Commission in its relevant order.

6. Commercial Settlement

6.1 All the commercial settlement under this agreement shall follow the Net - Metering Regulations and relevant Orders of Himachal Pradesh Electricity Regulatory Commission.

7. Connection Costs

7.1 The First Party shall bear all costs related to setting up of Photovoltaic System including metering and interconnection costs. The First Party agrees to pay the actual cost of modifications and upgrades to the service line required to connect the Photovoltaic System in case it is required.

8. Termination

8.1 The First Party can terminate agreement at any time by providing Second Party with 90 days prior notice.

8.2 Second Party has the right to terminate Agreement on 30 days prior written notice, if eligible consumer breaches a term of this Agreement and does not remedy the breach within 30 days of receiving written notice from Second Party of the breach.

8.3 First Party agrees that upon termination of this Agreement, he must disconnect the Photovoltaic System from Second Party distribution system in a timely manner and to Second Party's satisfaction.

In the witness, where of Mr. Ravesh Chaudhary for and on behalf

of First Party and Mr. _____ for Second Party sign this

Agreement in two originals.

First Party
Name:

V.K. CHOPRA

Address

Designation

[Signature]
Er. V.K. Chopra
Director Estate
Shoolini University, Solan.

K. Number of consumer: 1121318802

Account No. of consumer: 112130CHG15000001

Second Party
Name

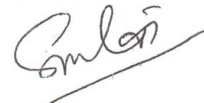
[Signature]
Sr. Executive Engineer
Elect. Divn. H.P.S.E.B. Ltd
Office Address

Date: - 14.05.2018

I have deposited Rs 12000/- in Account no 0433000400314305 of Sh Manoj Kumar for payment to following firms for the work done for our company (Daiz Solar) for providing and fixing Jafri in parking for Soar Energy Invertor.

1. Mehul Enterprises Bill no 2910 balance payment Rs 3930/- only.
 2. M/s Himachal Furniture Labour Bill Rs 10620/- only. (Rs 8070)
- Receipt of the firm may please be given to me.

Thanking you,



Sandeep Malik
Daiz Solar.

Foundation for Life Sciences and Business Management

Anand Campus, The Mall, Solan 173 212 (HP)
 Tel. : 01792-226674, 226774, Fax : 01792 226364

Date

Ref. No.

Recommendation for release of Subsidy to Installer /Successful bidder by owner of the SPV plant/ beneficiary under SECI Rooftop Scheme (On the letter head of the owner/beneficiary)		
RFS No. SECI/Cont./01/2016/500 Dated:22/04/2016		Date : 19/03/2018
1	Name of the owner / beneficiary & Complete postal address	: Foundation for Life Science & Business Management (FLSBM) Anand Complex , Near Head Post Office, The Mall, Solan, HP-173212
2	Name of the Authorized contact person (Including mobile no & Email-id)	: V.K.Chopra Director Estate (Shoolini University)
3	Address of SPV power plant installed : Shoolini University, Solan, HP	
4	Name of the Installer/Successful Bidder: M/s-Cambridge Energy Resources Pvt. Ltd.	
Sl. No	Component	Details
1	Actual capacity of SPV system installed (kWp)	400 KWp
2	Date of SPV plant Synchronized with the grid	Yet to be connected with transformer
2	Whether training was provided by installer for operation and maintenance (O&M) of SPV plant. Note: O&M of SPV plant for 25 years shall be the responsibility of installer from the date of issue of commissioning certificate by SECI.	YES
3	Whether the following documents were provided or not: Installation manual(SPV system), certificates, catalogue, As Built drawings for (DC SLD, AC SLD, Plant Layout, Civil & Structural drawings, SCADA drawings, Earthing & Lightning drawings, Bill of Quantity (BOQ), Design sheet for Earthing calculations, other drawings, etc..	PROVIDED
4	Transferred all the Warrantees and Guarantees of the different components of Solar PV system to the Owner of the project.	YES
5	Insurance during erection, testing & commissioning	YES
6	Web link for Remote monitoring of SPV plant including username & password to be provided by installer to SECI and owner of SPV plant (Above 10kWp)	PROVIDED
7	Capacity utilization factor (CUF) should be certified by Owner of the plant /beneficiary during 25 years O&M period.	YES
8	Cost break up	Owner share: Rs. NA/ Wp (RESCO MODEL)
		SECI Share: Rs.52.50 / Wp

W/C
19/3

Foundation for Life Sciences and Business Management

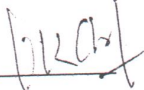
Anand Campus, The Mall, Solan 173 212 (HP)
Tel. : 01792-226674, 226774, Fax : 01792 226364

Date

Ref. No.

Declaration:

1. It is to certify that all the information given above is true and correct to best of my knowledge. We are satisfied with the installation of SPV system and working satisfactorily as per above details.
2. We hereby requesting SECI for the release of subsidy amount to **M/S-CAMBRIDGE ENERGY RESOURCES PVT LTD.** As per RFS terms & conditions.
3. I solemnly declare that we including our Affiliate/Group Company will not claim any subsidy using this project under any other schemes of Central/State Govt. /Public sector Undertaking.

Signature of Authorized Signatory on each page:  r/s

Name Vinod Kumar Chopra Designation Director Estate

Seal: Dr. V.K. Chopra
Director Estate
Shoolini University, Solan.

Received

Gulab
10/5/18

HIMACHAL PRADESH ELECTRICAL INSPECTORATE

FORM- A

APPLICATION FOR APPROVAL TO ENERGISE ELECTRICAL INSTALLATIONS OTHER THAN TRANSMISSION LINES
(UNDER REGULATION, 32, 36 & 43 OF CEA REGULATIONS, 2010)

1. Name of Regional office of Inspectorate Shimla
2. Name of HPSEBL Division No 3 Solan
3. Name of HPSEBL Sub -Division No-3 Solan
4. Name of Installation _____
5. Capacity 39kw Voltage Ratio _____ Connected Load(if any) 490/kw Attach details
6. Inspection fee Rs. 1500/- Challan No. 107 Date 28-3-18
7. Date of Application _____ (At least one month before the Proposed date of energisation)
8. Proposed date of energisation _____

Sr. No.	Regulation No.	Requirements	Report of owner / supplier
1.	Regulation-18	Whether "Danger Notice" in Hindi / English and the local language of the district and of a design as per relevant Indian Standard is affixed permanently in conspicuous position?	Yes/No ✓
2.	Regulation-19	(i) Whether the practice of working on live lines and apparatus is adopted? If so, have the safety measure been adopted as per Schedule-III?	Yes/No ✓
		(ii) Whether insulating floor or mats conforming to IS- 15652:2006 have been provided?	Yes/No ✓
		(iii) Whether identification of panel has been provided on the front and the rear of the panel?	Yes/No ✓
3.	Regulation-21	Whether flexible cables used for portable or transportable equipment covered under the Regulation, are heavily insulated and adequately protected from mechanical injury?	Yes/No ✓
4.	Regulation-24	Whether the circuits or apparatus intended for operating at different voltage(s) are distinguishable by means of indication(s) of permanent nature?.	Yes/No ✓

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4.	Regulation-24	Whether the circuits or apparatus intended for operating at different voltage(s) are distinguishable by means of indication(s) of permanent nature?.	Yes/No

HIMACHAL PRADESH ELECTRICAL INSPECTORATE

5.	Regulation-26	Whether all circuits and apparatus are so arranged that there is no danger of any part(s) becoming accidentally charged to any voltage beyond the limits of voltage for which it is/they are intended?	Yes/No
6.	Regulation-27	(i) In the case of generating stations and enclosed sub stations , whether fire-buckets filled with clean dry sand have been conspicuously marked and kept in convenient situations in addition to fire-extinguishers suitable for dealing with electric fires?	Yes/No
		(ii) Whether First Aid Boxes or cupboards conspicuously marked and properly equipped are provided and maintained?	Yes/No
		(iii) Is adequate staff trained in First Aid Treatment and fire fighting are engaged?	Yes/No
7.	Regulation-28	(i) Whether instructions in English or Hindi and the local language of the district and where Hindi is the local language, in English and Hindi, for the resuscitation of persons suffering from electric shock have been affixed in a "conspicuous place"?	Yes/No
		(ii) Are the designated persons able to apply instructions for resuscitation of persons suffering from electric shock?	Yes/No
8.	Regulation-35	(i) Whether a suitable linked switch, or circuit breaker, or emergency tripping device is placed near the point of commencement of supply so as to be readily accessible and capable of being easily operated to completely isolate the supply?	Yes/No
		(ii) Whether suitable linked switch or a circuit breaker to carry and break the full load current on the secondary side of a transformer?	Yes/No
		(iii) Whether every distinct circuit is protected against excess electricity by means of a suitable circuit breaker or cutout?	Yes/No
		(iv) Whether linked switch or circuit breaker or emergency tripping device is provided near the motor or other apparatus at voltage exceeding 650V but not exceeding 33KV for controlling supply to the motor or apparatus?	Yes/No
		(v) Whether adequate precautions are taken to ensure that no live parts are so exposed as to cause danger?	Yes/No
9.	Regulation-37	(i) Whether clear space of 100cm is provided in front of the main switchboard?	Yes/No
		(ii) Whether the space behind the switchboard exceeds 75cm in width or is less than 20cm?	Yes/No
		(iii) In case the clear space behind the switchboard exceeds 75cm. State whether a passage way from either end of the switchboard to a height of 1.80 meters is provided?	Yes/No

HIMACHAL PRADESH ELECTRICAL INSPECTORATE

10.	Regulation-41	(i) Has the neutral point at the transformer and generator been earthed by two separate and distinct connections with earth?	Yes/No
		(ii) Have the frame of every generator, stationary motor and so far as practicable portable motor and the metallic parts not intended as conductors of all transformers and any other apparatus used for regulating or controlling electricity and all electricity consuming apparatus at voltage exceeding 250 Volts but not exceeding 650 volts been earthed by two separate and distinct connections with earth?	Yes/No
		(iii) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connection?	Yes/No
		(iv) Whether earthing has been properly executed and has been tested. If yes, give value of earth resistance	_____ ohms
		(v) Is the earth wire free from any mechanical damage?	Yes/No
11.	Regulation-44 (1)	(i) Whether all conductors and apparatus including live parts thereof are inaccessible?	Yes/No
		(ii) Whether all windings of motors or other apparatus are suitably protected?	Yes/No
		(iii) State in case of transformers or reactors or switches or static condensers involving the use of more than 2,000 litres of oil in one chamber, if suitable oil soak pits are provided?	Yes/No
		(iv) Where 9,000 litres or more of oil is used in any one oil tank, has provision, been made for draining away or removal of oil which may leak or escape from such tank(s)?	Yes/No
		(v) Whether trenches inside sub-station containing cables are filled with non-inflammable material or completely covered with non-inflammable slabs?	Yes/No
		(vi) Are conductors and apparatus so arranged that they may be made dead in sections for carrying out work thereon?	Yes/No
12.	Regulation-44 (2)	(iii) Have the minimum safety working clearances specified in Schedule VII been maintained for the bare conductor or live parts of any apparatus in outdoor sub station ?	Yes/No
13.	Regulation-48	(i) Have the frames of every generator, stationary motor, and so far as practicable portable motor and metallic parts not intended as conductors of all transformers and any other apparatus used for regulating or controlling electricity and all electricity consuming apparatus at voltage exceeding 650V but not exceeding 33kv been earthed by two separate and distinct connections with earth?	Yes/No
		(ii) Is the earth strip /wire free from any mechanical damage?	Yes/No

HIMACHAL PRADESH ELECTRICAL INSPECTORATE

		(iii) Has the neutral point at the transformer and generator been earthed by two separate and distinct connections with earth?	Yes/No
		(iv) Have the metal casings or metallic coverings containing or protecting any electric supply line or apparatus been properly earthed and so joined and connected across all junction boxes as to make good mechanical and electrical connections throughout their whole length?	Yes/No
		(v) Whether earthing has been properly executed and has been tested. If yes, give value of earth resistance.	_____ ohms
14.	Regulation-49	Is the outdoor (except pole type) sub-station efficiently protected by fencing not less than 1.8 mts. in height?	Yes/No
15.	Regulation-50	(i) Where platform type construction is used for pole type sub-station, has sufficient space for a man to stand on the platform been provided?	Yes/No
		(ii) Has hand-rail been provided and connected with earth (if metallic and if sub-station has not been erected on wooden supports and wooden platform)?	Yes/No
16.	Regulation-51	Has suitable provision been made for immediate and automatic or manual discharge of every static condenser on disconnection of supply?	Yes/No
17.	Whether fire fighting system provided for the station? If yes, mention the type of protection provided.		

Enclosures:

- 1) List of equipment mention the data: (Name, Make, Sr. No., MW/KW, KVA, Quantity).
- 2) Single line diagram with metering & protection.
- 3) Drawing showing the location, layout, elevation and section.
- 4) Drawing of earthing with Electrodes/Mats.
- 5) Manufacturer's test certificate for each equipment.
- 6) Insulation test results and earth resistance of individual, combined electrodes and earth mat.
- 7) Details of electrical Contractor and Supervisor (enclose copy).
- 8) Copy of treasury challan receipt.
- 9) Copy of NOC from supplier in case of D.G. set to be commissioned as standby source of supply.

Signature of inspecting
Officer with seal

Signature of the owner /occupier/supplier
of the installation with Address, Mobile No.
and email ID.

For **SRIHITI ENTERPRISES**

[Signature]
A-400 Prop

TECHNICAL DATA FORM FOR FEASIBILITY CLEARANCE OF ROOF TOP SPV POWER PLANT
Form -B

(to be filled by JE/AEE of the area)

1	Name of Consumer	Foundation of Life Sciences B01	
2	Address/Location of Consumer/Location	Bajhal oachghat	
3	Contact No. and E-mail ID		
4	Account No.	11213 OCHG 150001	
5	Name of Sub-Division with Code	ESA No III Solan 11213	
6	Name of Division with Code	ED Solan	
7	Name of Circle with Code	C/S circle Solan	
8	Sanctioned load/CD OF Consumer with supply voltage	490kW / 490KVA on 11kV.	
9	Category D/S,C/S,NDNC, Ind./Agri.	NDNC	
10	Capacity of proposed SPV Plant in kWp/kVp (it should not be more 80% of the sanctioned load/CD for individual consumer covered under two parts tariff & shall be 30% of the sanctioned connected load in case of an individual consumer covered under single part tariff)	392 kW.	
11	Name and code of Distribution Transformer	Individual	
	i)Capacity of Distribution Transformer	400 KVA	
	ii)Connected Load kW/kVA	490KW	
	iii)Maximum Demand in Amps	26 Amps	
	iv)No. of LT Circuits	one (Individual)	
12	i)Length of LT Feeder (mtrs)	-NIL-	
	ii)Size of conductor (sq.mm)	-	
	iii)Maximum Demand in Amps	-	
13	i)Name of feeder with code	-	
	ii)Size of Conductor/Capacity	-	
14	Name of feeding s/stn with code	33/11kV SIS oachghat	
15	SPV PPs already connected on this distribution transformer (in kW/kVA)	No. of SPV PPs	
		Total capacity in kW/kVA	
16	No. of pending SPVPPs to be connected on the T/F	No. of SPVPPs	
		Total capacity in kW/kVA	
17	Capacity of proposed SPVPP on the T/F in kW/kVA	392 kW.	
18	Total load on this T/F (in KW/KVA)= Sum total of columns (15+16+17) should not be more than 30% of the capacity of T/F	No. of SPVPPs	
		Total capacity in kW/kVA	
19	Voltage level at which the consumer is being fed	11 kV.	
20	Recommendation of Field Office :0 (Whether capacity of SPVPP as per column 10 approved or not, if approved mention the approved capacity, if not assign the reasons	kW/kVA	

Date

Signature of Authorized Officer

Dr. D. N. H. P. S. E. B. Lal
Sub (H.P.)

Recommended for 392 kW.

Signature of HPSEB Official

Sub Divisional Officer,
Electrical Sub Division - III
H. P. S. E. B. Solan