

**LAKSH**  
Estd. 1996

7.1.2 Solar Power Point

*ipem.*

**INSTITUTE OF PROFESSIONAL  
EXCELLENCE & MANAGEMENT**  
(ISO 9001:2015 Certified & NAAC Accredited)

Date:18-01-2019

P.O. No:IPEM/2018-19

To,

M/S Sanridh Solar Pvt Ltd  
2nd Floor, 67, Navyug Market  
Ghaziabad (U.P.) - 201001

**Sub.: Purchase / Work Order for EPC including I&C of 100 kW On-Grid Roof Top Solar Power Plant at IPEM Campus**

Dear Sir,

With reference to the above and subsequent discussions held, (Trust or Owner or Institute or Company Name) is pleased to issue this Purchase / Work Order to M/S Sanridh Solar Pvt. Ltd covering Engineering, Procurement, Construction & Commissioning for 100 kW On - Grid Roof Top Solar Power Plant.

The details of the rate at which the Purchase / Work Order has been awarded to Sanridh Solar is as under:

ITEM DESCRIPTION	Rate/watt (100 KW)	TOTAL PROJECT COST (100KW )
100 kw PV ON-GRID Rooftop Solar Power Plant	Rs 40/ watt	Rs 40 lacs
	NOC & Net Meter Cost	Included
	Other Misc. expenses for getting NOC & net meter	Included
	GST @ 5% on project cost	Included
	AMC & Comprehensive warranty for 5 years	Included
	<b>GRAND TOTAL</b>	<b>Rs 40 Lacs</b>



Approved by AICTE, New Delhi & affiliated to U.P. Technical University, Lucknow for MBA, MCA

**A-13/1, S.S. G.T. Road Industrial Area, NH-24 By Pass, Ghaziabad - 201010**  
Telefax: 0120-4174500 • E-mail : info@ipemgzb.ac.in • Website : www.ipemgzb.ac.in

**Conduits & Accessories**

14	flexible metal pipe	metal flexible pipe for AC cable bending		As required	mtr
15	conduit pipe & Cable Tray	Cable Tray / UPVC conduit pipe for DC /AC wire	Kissan	As required	nos
16	L-joint	suitable for conduit pipe		As required	nos
17	T-joint	suitable for conduit pipe		As required	nos
18	I-joint	suitable for conduit pipe		As required	nos
<b>Other Components</b>					
19	cable tie	300 mm length, UV protected	flu - con	As required	packet
20	MC 4 connector	MALE + FEMALE -1000V		As required	nos
21	metal sadal for PVC conduit	sadal for 32 mm pipe		As required	nos
22	metal sadal for PVC conduit	GI sadal for 40 mm pipe		As required	nos
23	metal sadal for GI strip	SS type 1 inch saddle		As required	nos
24	PVC gitti	PVC type		As required	packet
25	metal screw	SS type		As required	packet
26	PVC tape	Black	steel grip	As required	no
27	foundation bolt	GI bolt with two nut and two washer	standard make	As required	nos
28	copper lugs	pin type/ring type	Dowells	As required	nos
29	aluminium lugs	pin type		As required	nos
30	fastener	ss type	BMF	As required	nos
31	Nito bond	adhesive for RCC joining	Nito bond	As required	litre
32	Paint	white distemper paint	asian paints	As required	kg

Thanking you

Authorized Signatory

IPeM

*[Handwritten Signature]*  
18/1/19

Secretary  
Institute of Professional  
Excellence & Management  
A-13/1, South Side, G.T. Road,  
Industrial Area, NH-24, Ghaziabad-201010



## TERMS & CONDITIONS

### 1. SITE ADDRESS

The 100 KW solar Plant will be installed at the following address:

**Institute of Professional Excellence & Management (IPEM), A-13/1, SSGT Road,  
Industrial Area, NH-24 By Pass, Ghaziabad**

### 2. MATERIALS LIST

The detailed Bill of Materials is attached with this PO after the final discussions and agreed by Sanridh Solar.

### 3. TIME SCHEDULE

The handover of successfully commissioned plant would be in 75 days from the date of transfer of advance to **M/S Sanridh Solar Pvt Ltd.**

### 4. PAYMENT TERMS

The terms of payment for the Contract shall be as detailed hereunder:

- 40% - Advance Payment i.e. Rs 16,00,000
- 40% - Before the dispatch of materials i.e. Rs. 16,00,000
- 20% - On commissioning of the Power Plant i.e. Rs 8,00,000

### 5. WARRANTIES

The 05 years AMC & comprehensive warranty would be directly extended to Laksh Educational Society Unit IPEM by **Sanridh Solar Pvt Ltd.** for any manufacture or working default.

### 6. STATUTORY CLEARANCES

Statutory Clearances will be required from the following departments:

- a. NOCs & Net Metering Agreement from DISCOM (UPPCL)
- b. Dual Meters testing and installation from DISCOM (UPPCL)
- c. NOC from Electrical Safety department for projects more than 10 KW

The **Laksh Educational Society Unit IPEM** shall provide all the relevant documents and cooperation for the acquiring of such clearances.

### 7. SUBSIDY

Documents for subsidy claims (valuing to 30%) shall be completed by **Sanridh Solar Pvt. Ltd.** and apply to Govt. Authorities. Any Shortcoming related to these documents/ demand by Govt. shall be the responsibilities to **Sanridh Solar Pvt. Ltd.**

### 8. CONFIDENTIALITY

Each of the parties shall not disclose the terms hereof to any person/ party. Provided however, either party may disclose the existence of the transaction to its legal counsel, accountants, lenders, engineers, architects, interior designers, investors, vendors, suppliers and other persons who need to be aware of the existence of the transaction. Further, either party may disclose the existence of the transaction to the extent that law or court order requires such disclosure, but in such case the other party must be first provided with a written notice thereof.



## 9. SCOPE OF WORK

S.NO.	PROJECT WORK	RESPONSIBILITY
1.	Designing of the layout	Sanridh Solar
2.	Handing the site to Sanridh Solar for installation	IPEM
3.	Availability of one room & Security of Solar equipments etc. at the site	IPEM
4.	Any damages at the site to any equipment (during night etc.) by any staff or labour	IPEM
5.	Availability of Power supply for installation of solar plant	IPEM
6.	Complete Installation of Solar Plant from civil work to commissioning	Sanridh Solar
7.	Necessary approvals & liaison from the following departments: a. Electricity Deptt for NOC & Net Metering b. Electrical Safety Deptt c. Any other Govt Deptt	Sanridh Solar
8.	Purchase of Dual Meters from Electricity Deptt	Sanridh Solar
9.	Misc.expenses to be incurred on the following: a. Electricity Deptt for NOC & Net Metering b. Electrical Safety Deptt c. Any other Govt deptt	Sanridh Solar

10.

## BILL OF MATERIAL

### Primary Components

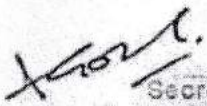
S.No	Particulars	Specifications	Make	Quantity	UOM
1	Solar modules	350Wp Monocrystalline	Waaree	286	no
2	String Inverter	50 Kw string inverter, 3 phase AC power output	ABB	2	no
3	ACDB	ACDB with MCB, SPD 2 no.(with internal components make- L&T, schneider, Mersen, Elmexetc)	JMV/ DRS energy/ SRR energy	As required	no
4	DCDB	15 amp, 1000 volt fuse, with 2 SPD (with internal components make- L&T, schneider, Mersen, Elmexetc)	JMV/ DRS energy/ SRR energy	as required	no
5	module mounting structure	Hot dip galvanized structure with 80 microns	standard make	as per design	
<b>Cable &amp; Wire</b>					
6	DC wire	1100V UV protected	GMR/polycab	As required	mtr
7	AC cable (inverter - ACDB)	PVC insulated flexible Cu cable	GMR/polycab	As required	mtr
8	AC cable (ACDB - LT Panel)	PVC insulated flexible Al cable	GMR/polycab	As required	mtr
9	earthing cable	green Cu cable for module earthing	GMR/polycab	As required	mtr
<b>Earthing and Protection</b>					
10	Lightning arrestor	coventional type, with spikes	JMV	As required	no
11	Earthing Electrode	3 m 17.5 mm dia 250 microns copper bounded with chemical bag	standard make	As required	nos
12	earth pit cover	earth pit cover of 6 inch cross-section dia	standard make	As required	nos
13	earthing strip	25 x 3 GI strip	standard make	As required	mtr



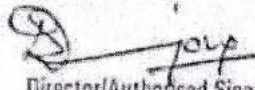
*Handwritten signature and date: 10/11/2014*

**Commissioning Report for Grid Connection**  
**Photovoltaic Power Plant (with net - metering facility)**

Certified that a Grid connected SPV Power Plant of 180.....KWp capacity has been installed at the site IPEM, A-13/1, S.S. GT Road Industrial Area NH-24  
Ryppus Ghaziabad - 201010.  
.....district Ghaziabad of Uttar Pradesh..... which has been installed by M/S. Sanridh Solar Pvt. Ltd  
on 05 June 2019..... This system is as per BIS/MNRE Specifications. The system has been checked for its performance on 26.6.19..... With installation of bi-directional meter and it is working satisfactorily.


  
Secretary  
Institute of Professional  
Excellence & Management  
A-13/1, South Side, G.T. Road,  
Ghaziabad-201010

Signature of the beneficiary For SANRIDH SOLAR PVT. LTD.

  
Director/Authorised Signatory

Signature of the rep. of the supplier

With name, seal and date

  
Signature of P.O.  
यूपीनेहा, गणजियाबाद  
With name, seal and date

राजेश कुमार सक्सेना  
एनएच-24/सेक्टर इंचार्ज  
यूपीओ भंडा, गणजियाबाद

26/06/19  
आरओ डीओ जयन्ता  
अवर अभियन्ता  
यूपीओ सेक्टर, गा0बाद



## Application Form for Registration Solar Rooftop

Application Status	Approved
Application ID	15501410532471
Application Type	NA
Full Name	Laksh Educational society
Father Name	Anupam Goel
Mobile No	9910491467
Email	
Address	INSTITUTE OF PROFESSIONAL EXCELLENCE AND MANAGEMENT A-13/1 SOUTH SIDE GHAZIABAD
Net metering	Net Metering Without Battery Backup
Bank Name	ORIENTAL BANK OF COMMERCE
Branch Name	GHAZIABAD-IMS
Bank Address	INSTITUTE OF MANAGEMENT STUDIES,LALA KUAN GHAZIABAD,GHAZIABAD
Account No	51461131001320
IFSC Code	ORBC0105146
Subsidy MNRE	Yes
Subsidy State	No
Service Connection No./Consumer No	6384026000
Sanctioned Load (as per electricity bill) in KW	112
Sub-Division	SDO1509139
Aadhaar Card No	806452685129
Area of Roof to install Solar Plate(in sq. meter)	1000
Society Registration	1431
Society Pan Card	ABJPG5145Q
Net Meter Registration	
Net Meter Date	
Proposed KW	100.00



NGCPA



उत्तर प्रदेश UTTAR PRADESH

EY 437861

Annexure-V (A)

Inter connection agreement (Net Metering Arrangement)

This Agreement is made and entered into at (location) GZB on this (date) 19 day of (month) 06 year 2012 between

The Eligible Consumer by the name of Laksh Educational Society having or leasing the premises at (address) A-13/1, SSGT Road, Indl area, GZB as first party AND Distribution Licensee (herein after called as Licensee) and represented by ..... (Designation of office) and having its registered office at (address) SSGT Road, GZB as second party of the agreement

And whereas, the ..... (Name of the Licensee) agrees to provide grid connectivity to the eligible consumer for injection of the electricity generated from his SPV plant of capacity 100 K.W. kilowatts into the power system of Licensee and as per conditions of this agreement and net-metering regulations/orders issued by the Uttar Pradesh Electricity Regulatory Commission.

Both the parties hereby agree to as follows:

1. Eligibility

1.1. Eligibility for net-metering has been specified in the UPERC (Rooftop Solar PV Grid Interactive SystemGross / Net Metering) Regulations, 2015 (hereinafter referred to as RSPV Regulations, 2015). Eligible consumer 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. The eligible consumer agrees that his Rooftop Solar PV generation plant and net metering system will conform to the standards and requirements specified in these regulations and in the following Regulations and codes as amended from time to time.





Signature  
Secretary  
Laksh Educational Society  
A-13/1, South Side, G.T. Road  
Industrial Area, NH-24  
Ghaziabad-201010



- i. Central Electricity Authority (Technical Standards for connectivity of the Distributed Generating Resources) Regulations, 2013 and subsequent amendments thereof;
  - ii. Central Electricity Authority (Installation and Operation of Meters) Regulation 2006 and subsequent amendments thereof;
  - iii. Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010 and subsequent amendments thereof;
  - iv. UPERC Electricity Grid Code, 2007 and subsequent amendments thereof;
  - v. UPERC (Grant of Connectivity to Intra-State Transmission System) Regulations, 2010 and subsequent amendments thereof to the extent specified in the UPERC RSPV Regulations 2015;
  - vi. UPERC Supply Code Regulations 2005 and subsequent amendments thereof;
  - vii. Any other provisions applicable to the electricity consumer of the Distribution Licensee.
- 2.2. Eligible consumer agrees that he has installed or will install, prior to connection of Photovoltaic system to Licensee's distribution system, an isolation device (both automatic and inbuilt within inverter and external manual relays) and agrees for the Licensee to have access to and operation of this, if required and for repair & maintenance of the distribution system.
- 2.3. Eligible consumer agrees that in case of a power outage on Licensee's system, photovoltaic system will disconnect/isolate automatically and his plant will not inject power into Licensee's distribution system.
- 2.4. All the equipment connected to distribution system shall be compliant with relevant International (IEEE/IEC) or Indian standards (BIS) and installations of electrical equipment must comply with Central Electricity Authority (Measures of Safety and Electricity Supply) Regulations, 2010.
- 2.5. Eligible consumer agrees that Licensee will specify the interface/interconnection point and metering point.
- 2.6. Eligible consumer and Licensee agree to comply with the relevant CEA and UPERC Regulations in respect of operation and maintenance of the plant, drawing and diagrams, site responsibility schedule, harmonics, synchronization, voltage, frequency, flicker etc.
- 2.7. Due to Licensee's obligation to maintain a safe and reliable distribution system, eligible consumer agrees that if it is determined by the Licensee that eligible consumer's photovoltaic system either causes damage to and/or produces adverse effects affecting other consumers or Licensee's assets, eligible consumer will have to disconnect photovoltaic system immediately from the distribution system upon direction from the Licensee and correct the problem at his own expense prior to a reconnection.
- 3. Clearances and Approvals**
- 3.1. The eligible consumer 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. Licensee shall have access to metering equipment and disconnecting means of the solar photovoltaic system, both automatic and manual, at all times.
- 4.2. In emergency or outage situation, where there is no access to the disconnecting means, both automatic and manual, such as a switch or breaker, Licensee may disconnect service to the premises of the eligible consumer.

**5. Liabilities**



  
  
Secretary  
Laksh Educational Society  
A-13/1, South Side, G.T. Road  
Industrial Area, NH-24  
Ghaziabad-201010



- 5.1. Eligible consumer and Licensee will indemnify each other for damages or adverse effects from either party's negligence or intentional misconduct in the connection and operation of photovoltaic system or Licensee's distribution system.
  - 5.2. Licensee and eligible consumer will not be liable to each other for any loss of profits or revenues, business interruption losses, loss of contract or loss of goodwill, or for indirect, consequential, incidental or special damages, including, but not limited to, punitive or exemplary damages, whether any of the said liability, loss or damages arise in contract, or otherwise.
  - 5.3. Licensee shall not be liable for delivery or realization by eligible consumer for any fiscal or other incentive provided by the Central/State Government beyond the scope specified by the Commission in its relevant Order
  - 5.4. The Licensee may consider the quantum of electricity generation from the Rooftop Solar PV system towards RPO.
- 6. Commercial Settlement**
- 6.1. All the commercial settlement under this agreement shall follow the RSPV Regulations, 2015 issued by the UPERC.
- 7. Connection Costs**
- 7.1. The eligible consumer shall bear all costs related to setting up of photovoltaic system including metering and interconnection costs. The eligible consumer agrees to pay the actual cost of modifications and upgrades to the service line required to connect photovoltaic system to the grid in case it is required.
- 8. Termination**
- 8.1. The eligible consumer can terminate agreement at any time by providing Licensee with 90 days prior notice.
  - 8.2. Licensee has the right to terminate Agreement on 30 days prior written notice, if eligible consumer commits breach of any of the term of this Agreement and does not remedy the breach within 30 days of receiving written notice from Licensee of the breach.
  - 8.3. Eligible consumer shall upon termination of this Agreement, disconnect the photovoltaic system from Licensee's distribution system in a timely manner and to Licensee's satisfaction.

In witness, whereof, Mr. .... for and on behalf of (Eligible consumer) and Mr. .... for and on behalf of (Licensee) sign this agreement in two originals.

*[Handwritten Signature]*  
 Eligible Consumer  
 Name Secretary  
 Laksh Educational Society  
 Address A-13/1, South Side, G.T. Road  
 Industrial Area, NH-24  
 Ghaziabad-201010  
 Service connection No.

Distribution Licensee  
 Name  
 Designation  
 Office Address





उत्तर प्रदेश UTTAR PRADESH

93AD 435777

**AUTHORIZATION LETTER**

We LAKSH EDUCATIONAL SOCIETY address A-13/1, SOUTH SIDE GT ROAD, INDUSTRIAL AREA, GHAZIABAD (U.P) do hereby authorize M/s SANRIDH SOLAR PVT LTD, 67, 11nd floor, NAVYUG MARKET, GHAZIABAD to process all the formalities related to Purchase of Net meter on our behalf.

Therefore, you are requested to kindly allow their representative to submit all the necessary documents like application form, fees etc on my behalf.

For Laksh Educational Society

  
Authorised Signatory





उत्तर प्रदेश UTTAR PRADESH

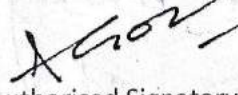
93AD 435777

### AUTHORIZATION LETTER

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For Laksh Educational Society

  
Authorised Signatory

Secretary  
Laksh Educational Society  
A-13/1, South Side, G.T. Road  
Industrial Area, NH-24  
Ghaziabad-201010

