

# Incrivel Solutions

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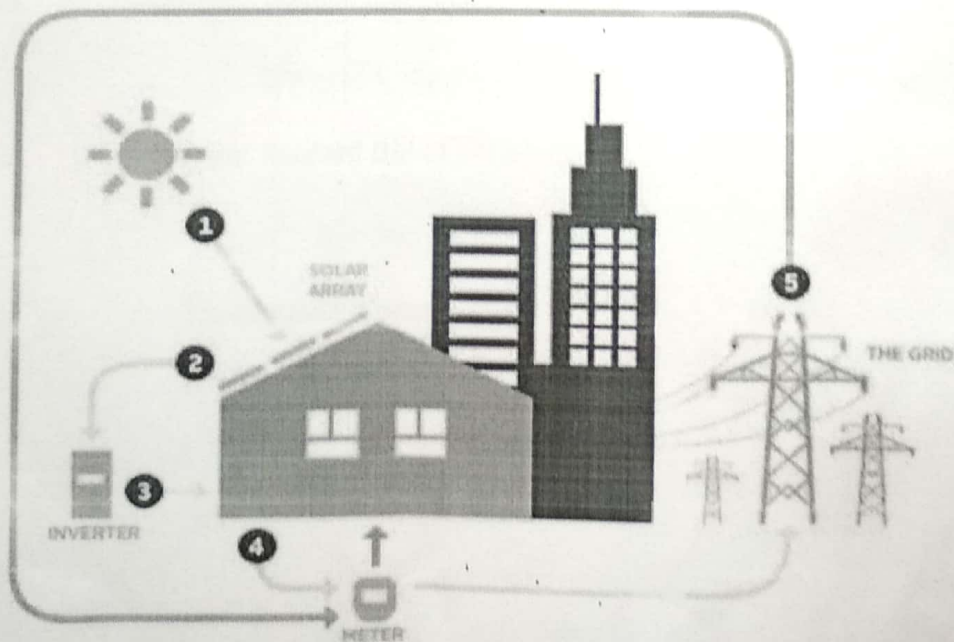


## 19 KWp SOLAR GRID TIED SYSTEM

For, KVPS-INSTITUTE OF  
PHARMACEUTICAL EDUCATION, BORADI.

## Introduction: Grid-Connect Solar PV Rooftop power Plant

1. Sunlight – The Sunlight is absorbed by the solar panels installed on roof.
2. Solar Panels – The solar panels are made up of photovoltaic (PV) cells, which convert sunlight into direct current (DC) electricity all day.
3. Inverter – The inverter converts the DC electricity generated by the solar panels into the alternating current (AC) electricity which you can use in your home or office.
4. Utility Meter – The utility meter measures your energy use. Any additional electricity that's not used by your home is fed back into the grid. It actually goes backward when your system generates more power than you immediately need. This excess energy offsets the energy you use at night.
5. Utility Grid – Your home is still connected to the grid. Electricity is drawn from the grid when you need more power than your solar energy system can produce. You'll need that power from the utility company at night, but don't worry. The cost is offset by any excess clean energy you put into the grid during the day.





## Scope of Work:

Sr.No	Work Description	Incrivel Solutions	Client
<b>1.</b>	<b>Design Engineering</b>		
1.1	Site Survey and Engineering	√	
1.2	Project Monitoring	√	
1.3	Progress Report	√	
<b>2.</b>	<b>Design &amp; Drawings</b>	√	
2.1	Relevant drawings (Electrical and Civil)	√	
<b>3.</b>	<b>Project Pre Take-off Activities</b>		
3.1	Statutory Clearance (all required)		√
3.2	Construction Power & Water		√
3.3	Land/Site Cleaning and site clear approach		√
<b>4.</b>	<b>Materials Supply</b>		
4.1	As per standard Bill of Materials	√	
<b>5.</b>	<b>Services</b>		
5.1	Installation & Commissioning	√	



### System Design:

Particulars	Capacity
PV Array Capacity (KWp)	19 KWp
Type of Solar Power Plant	Grid tied
Annual generation in the 1st year (KWh)*	28,500 KWh/yr

\* May vary with grid down time & Maintenance.

### Bill of Materials:

The proposed solar PV power plant consists of the following:

Component	Type/Model No	Specification	19 KWP	MAKE
PV MODULES	High Efficient Polycrystalline Panels	Pm – 325 Wp EFFICIENCY – 17.5%	57 No's	Waaree/Vikram Reputed Make. (MADE IN INDIA)
INVERTER	ON grid Inverter	Output:- 415 V AC,50Hz 3 phase, Eff: >97%	19kVA × 1	Polycab Reputed Brand.
MOUNTING STRUCTURE	GI Structure	With sustaining wind speed of 150km/hr	1 set	Reputed Make. Structure. Nature Light Engineered
JUNCTION BOX ACDB / DCDB	Reputed make Incrivel Solutions Engineered	IP 65 protected JB with SPD, Fuses, Breakers, Isolators, MCB etc	1 set	Reputed Make. Designed by Incrivel Solutions
EARTHING KIT	As per IEEE Standards CU BONDED EARTHING		3 set	Reputed Make.
LIGHTNING ARRESTOR	COPPER		1 set	Reputed Make.



AC & DC CABLES	Solar and ac cable with proper coating And standards	As per Design	Poly Cable or any other Reputed make
Net Meter	20-100Amp, 3 Phase	1 No's	Secure/L&T/HPL Make

#### Note & Exclusions:

- Customer has to provide a computer for downloading electrical data from the inverter. The same can be connected via RS485 cable. The cost of providing RS485 cable shall be extra based on the length required.
- The solar energy generation figures may vary based on actual grid down time and maintenance at site.
- Charges for CEIG approval, grid connectivity, net meter are extra at actual, to be paid by the customer.
- We have assumed standard module mounting structures. Any super structures or I-Beams or additional foundation etc. shall be payable extra by the customer.

#### Pricing of System:

Description	Price/Wp (INR)	Price (INR)
Supply of Part & Services Cost Combined (supply of materials including cost of transportation for system.)	55	10,45,000
<b>Total price to be paid by the customer</b>	<b>55</b>	<b>10,45,000</b>
<b>Total (in words): Rupees Ten Lakh Forty five Thousand Only.</b>		

#### NOTE:

- All taxes are included.
- The above cost does not include Demand charges. It will be paid by customer
- The above cost includes net meter, generation meter and liaising charges.





## General Terms & Conditions:

<b>1. Introduction</b>	These General Terms and Conditions (the "Conditions") shall, unless otherwise agreed in writing, apply to the sale and delivery of the Equipment and related Services and Spare Parts by Incrivel Solutions to a customer/buyer/client ("Owner").
<b>2. Price Basis</b>	CIF Site
<b>3. Taxes and Duties</b>	All taxes as per current laws are included. After acceptance of Purchase Order/LOI, due to change in Government policy if any new taxes are applicable, such rates will be to the customer's account
<b>4. Freight &amp; Insurance</b>	Includes freight and transit insurance charges.
<b>5. Terms of Payment</b>	50% as an advance along with PO. 40% against readiness of material dispatch. 5% against receipt of materials on site 5% against successful commissioning of Plant.
<b>6. Delivery/ Completion Time</b>	Completion shall be within 10 weeks from the date of receipt of technically and commercially clear Purchase Order and Work Order from the customer along with advance and payment milestones. The Completion time shall be reasonably extended if:- Advance amount is not received within 5 days after issuance of LOI/PO. The technical or commercial data required by us to execute the order is not made available on time or if subsequent changes, which delay the delivery, are made by the customer. If approval of design & drawings is delayed by the customer beyond 7 days from date of submission by Incrivel Solutions. If the customer is late in handing over project site. If the customer does not obtain necessary permissions required before Incrivel Solutions starts work Due to Force Majeure conditions. Incrivel Solutions does not guarantee a timeline for net metering completion
<b>7. Deemed Commissioning</b>	If the grid is not made available by the customer to Incrivel Solutions within 15 days of the solar power plant being ready for grid connectivity because of which Incrivel Solutions cannot



	<p>conduct the final performance tests, it shall be construed as "Deemed Commissioning" and final payment shall be made by the customer subsequent to such deemed commissioning.</p>
<b>8. Commissioning and Testing</b>	<p>Once the solar power plant is ready for connection to the Grid and Incrivel Solutions has conducted the test after such connection successfully whether in presence of the customer or not, the solar power plant shall be considered as commissioned and tested. Confirmation of such commissioning &amp; testing should be accepted by the customer in writing and shall not be unreasonably withheld for no fault of Incrivel Solutions.</p>
<b>9. Limitation to Liability and Indemnity</b>	<p>In no event shall Incrivel Solutions be liable for any special, punitive, indirect, or consequential damages of any nature whatsoever, nor for any losses or damages caused by reason of unavailability of the Equipment or the Facility, shutdowns or service interruptions, loss of use, loss of actual or potential profits or revenue, loss of reputation, inventory or use charges, interest charges or cost of capital or any claims made by the customer or other contracting parties or pollution remediation costs.</p> <p>The overall liability of Incrivel Solutions whether for liquidated damages or otherwise shall not be more than 5 % of the total order value. Each Party shall indemnify and hold the other Party harmless from any claims by a third party for loss of or damage to property or death or personal injury arising out of or connected with that Party's negligence while engaged in its activities under the Contract. In the event such damage or injury is caused by the joint or concurrent negligence of the Supplier/Contractor and the customer, the loss shall be borne by each Party in proportion to its negligence.</p> <p>The Liquidated Damages shall be the customer's only remedy for delay in delivery and for any deviations in the supply of equipment and shall constitute the customer's only liability in this respect. The defect liability period shall be for 24 months commencing from date of actual commissioning (including deemed commissioning). During this period, Incrivel Solutions shall attend to issues free of cost, related to the Solar Photovoltaic system on receiving notification of such</p>





	defect from the customer. .
10. Warranty	<p>For SPV Modules:</p> <p>05 years Limited Warranty on Product and Workmanship. 10 years Limited Warranty on 90% Power Output. 25 Years Limited Warranty on 80% Power Output.</p> <p>For BOS:</p> <p>24 Months Limited Warranty.</p> <p>Parts and Components, which are repaired or replaced during such period, are warranted for the original warranty period only and will not carry any extended warranty. If the equipment is not repairable at site the same has to be sent to Incrivel Solution's workshop on freight prepaid basis after obtaining Incrivel Solution's consent in writing and Incrivel Solutions shall make good the defect and return back to the customer on freight to pay basis. Incrivel Solutions shall repair or re-perform, in whole or in part, at its sole discretion, any defective Parts or Work which appear during the warranty period. The customer shall immediately take appropriate steps to prevent any defect from becoming more serious and to enable Incrivel Solutions to rectify the aforesaid defect. In order to receive this remedy, any warranty claims or requests with respect to this warranty must be made in writing without delay and not later than fourteen (14) days following i)discovery of such defect during the warranty period, or ii) the day when such defect should have been discovered by the customer during the warranty period. Defective parts of the Equipment and the Spare Parts shall become Incrivel Solution's property. Incrivel Solutions shall bear only the costs of repairing or replacing the defective parts of the Equipment and the defective Spare Parts at Incrivel Solution's Workshop. Incrivel Solutions shall not be responsible for removal or replacement of systems, structures of or other products at the facility of the customer in order to access the defective part of the Equipment or the defective Spare Part.</p>
11. Validity	This offer is valid from 15 days from the date of submission.





<b>12. Right and lien on property</b>	We shall retain the right on equipment, materials or parts supplied by us under this quotation until full value thereof as per our invoice has been fully paid to us as per terms and conditions.
<b>13. Force Majeure</b>	<p>In case the supply is affected by the force majeure conditions, we shall intimate the customer, within a reasonable time, of such occurrence and suitable extension to the delivery time shall be granted. We shall be under no liability if performance of contract on our part is prevented or delayed whether in whole or in part due to any of the causes beyond our reasonable control.</p> <p>The supplier / contractor shall not be held responsible for any delay, loss or damage arising from any cause, matter or thing beyond the supplier's / sub-supplier's / contractor's reasonable control, including, without prejudice to strikes, lockouts, go-slow, delays in approval of drawing, rejection of any important part of work, default of sub supplier in supplying the parts / raw materials, lack of transportation facilities, inability to obtain necessary labor or materials, official prohibition of transit of goods, requisition by legal authorities of personal property, movable or immovable, restriction in power supply or any other action of the government, riots, war or warlike conditions, acts of nature or God such as epidemics, floods, earthquakes, fires etc. whether such delay or impediment occurs.</p>
<b>14. Confidentiality / Do not disclose</b>	The information shared by us of any nature during tendering or execution of the contract may be treated as truly confidential. Due respect should be taken care to respect the confidentiality of intellectual property. The Confidentiality should be maintained strictly and this document shall not be shared, disclosed, reproduced, copied Or circulated without our written permission of Incrivel Solutions.

**Thank You**

Incrivel Solutions

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