



AQAR 2020-2021

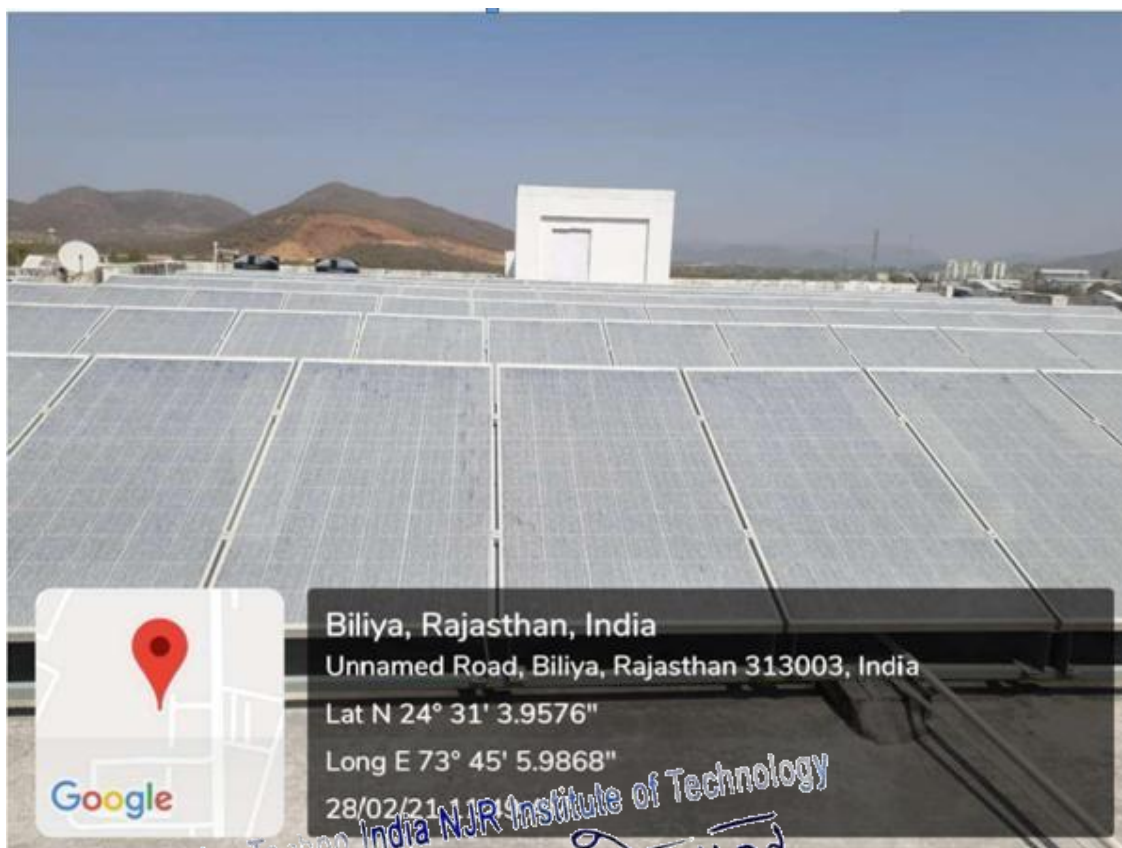
7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

For Techno India NJR Institute of Technology
पंकज पौरवाल
Dr. Pankaj Kumar Porwal
(Principal)

S. No	Alternate source Name	Year of Installation	Date of Completion	Date of commissioning	Production capacity
1	Solar Power plant	2017	29/08/2017	29/08/2017	50KVA
2	Solar water Heater system	2015	09/10/2015	09/10/2015	1000 liters
3	Solar Streets Led Lights	2020	1/10/2020	1/10/2020	20W*10 (quantity) = 200 W

Solar Power plant



Biliya, Rajasthan, India
 Unnamed Road, Biliya, Rajasthan 313003, India
 Lat N 24° 31' 3.9576"
 Long E 73° 45' 5.9868"
 28/02/21 11:49

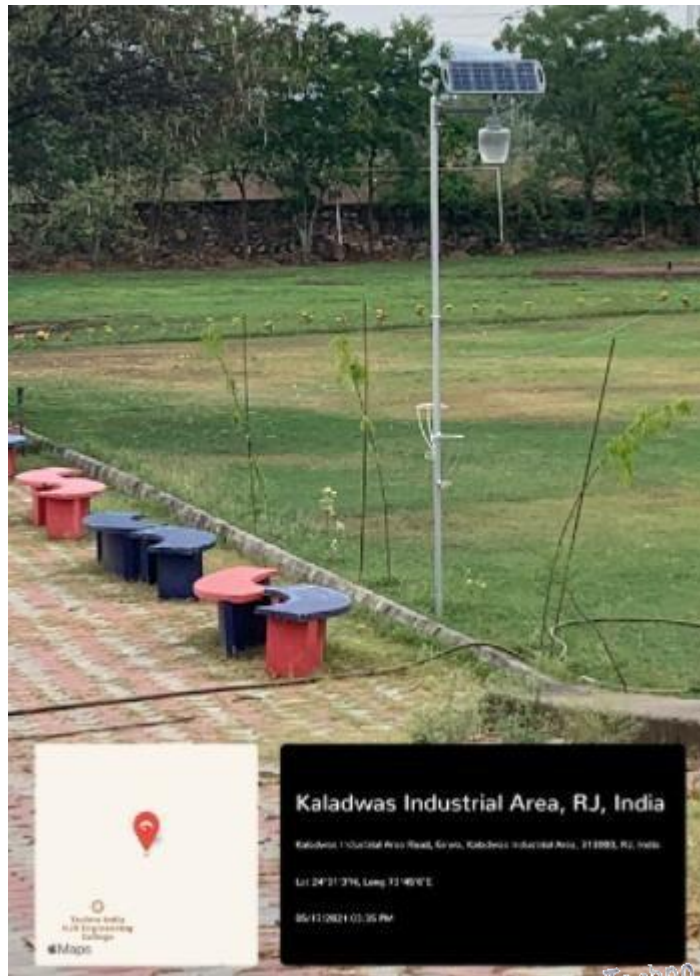
For Techno India NJR Institute of Technology

पंकज पोरवाल
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Solar water Heater system



Solar Streets Led Lights With Auto ON/OFF (Quantity 10)



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MUNDRA ENERGY

1169-SEC 11, OPP. OLD INDIAN OIL DEPOT, UDAIPUR (RAJ.)-313001

TEL:- 07726008851-52

Date: 09/10/2015

CERTIFICATE

- (i) The Solar Water Heating System Have actually Been Installed 1000 LPD MUNDRA SWH at Site Of
TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY, RIICO IND. AREA, UDAIPUR (Raj.).

As per Bis/MNRE standards/Specifications/Approval with minimum requirements Followed (as enclosed) and they have been inspected by their officers/ our own representative after their installation.

- (ii) Five year performance warranty has been provided for satisfactory performance for all the system.
- (iii) There is no duplication of the system installed through them earlier.
- (iv) Vacume Tubes Breakaging Does not exist in warranty.



Day- Wednesday
Date- 28/10/15
Time- 5:15 PM.

HANDOVER CERTIFICATE

Customer- Techno NJR
Site- _____

Location	Type	Size
Hostel building Techno NJR. udaipur.	1000 liters non-pressurised Solar water heater system with 100 liters back up unit.	1000 litres.

The installed system has been checked by a competent authorized person on date shown above and found to be in good order and used only for water heating.

Signature on behalf of Client

For Techno India NJR Institute of Technology
UDAI PÜR

Name- Dr. Pankaj Kumar Porwal
Principal

For Techno India NJR Institute of Technology
पंकज पोरवाल
Dr. Pankaj Kumar Porwal
(Principal)

Solar Streets Led Lights



LTR/ESEPL/012/2021.

Date: 06 jan 2021

To,

R.S Vyas (Founder & director)

Techno India NJR, Udaipur.

Dear sir

We Eco Sol Energy private limited take one step toward green energy and contribute 10 nos. Of solar smart integared street light to Techno India NJR institute of engineering, Udaipur. Our mission for encouraging people to come in green energy solutions for future renewable energy sources.

Thanking & Reards

Brajbhushan Nausaliya

MD

Eco Sol Energy private limited

briinausalia@yahoo.com

9414024098,02942450217

For Techno India NJR Institute of Technology
पंकज पौरवाल
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(Principal)

Solar Smart Integrated Street Light 20W



Specification

Product	Details
Solar Panel	5V/ 36Wp (Mono)
Led (Nichia SMD)	20W/2700LM
Battery	3.7V/40Ah (Lithium iron Phosphate)
Working Temperature	-30°C to 60° C
Installation Height	5-6 Meter
Body Material	Aluminum Magnesium alloy
Installation Distance	10-15M with Adjustable Panel
Power Management	Intelligent Battery Management (BMS)
Color Temperature	5500-6000K
Charging Time	6 Hour
Discharging Time	2 Day Backup autonomous (Blackout)
Warranty	5 Years

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Quotation:

Product	Price	With GST@5%
20W Solar Integrated LED Street Light	13500/-	14175/-

Feature

- Smart control saving more and system works stably.
- **Lithium iron phosphate battery** with 2 days autonomous back up (8 hour per day) and smart BMS (Battery Management system) for increasing of battery life (working in -20° to 55° Temp.).
- Led chip is NICHIA; Illumination of 140lm per watt
- Solar panel higher efficiency is 17% (Mono crystalline).

Term & Condition

- Above Price of light is bulk light price. (Min. Quantity 10 Nos)
- Pole (MS- 3"3") & installation charges will be extra for Rajasthan @ 5000/- Each pole.
- Tax & Transpiration will be included.

Eco Sol Energy Pvt. Ltd

marketing@ecosolenergy.com

9414024098, 8233562448, 02942450217

For Techno India NJR Institute of Technology
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Power purchase agreement with state electricity board, name of the entity on which invoice is being raised by state electricity board

As the land on which the institute is situated is in the name of owner foundation NAVDEEP JITENDRA RANAWAT Charitable foundation, the electric connection is in the name of the foundation.

Import	Export	Net Metering
		
Reading on display 0469948	Reading on display 09656	Reading on display 46029

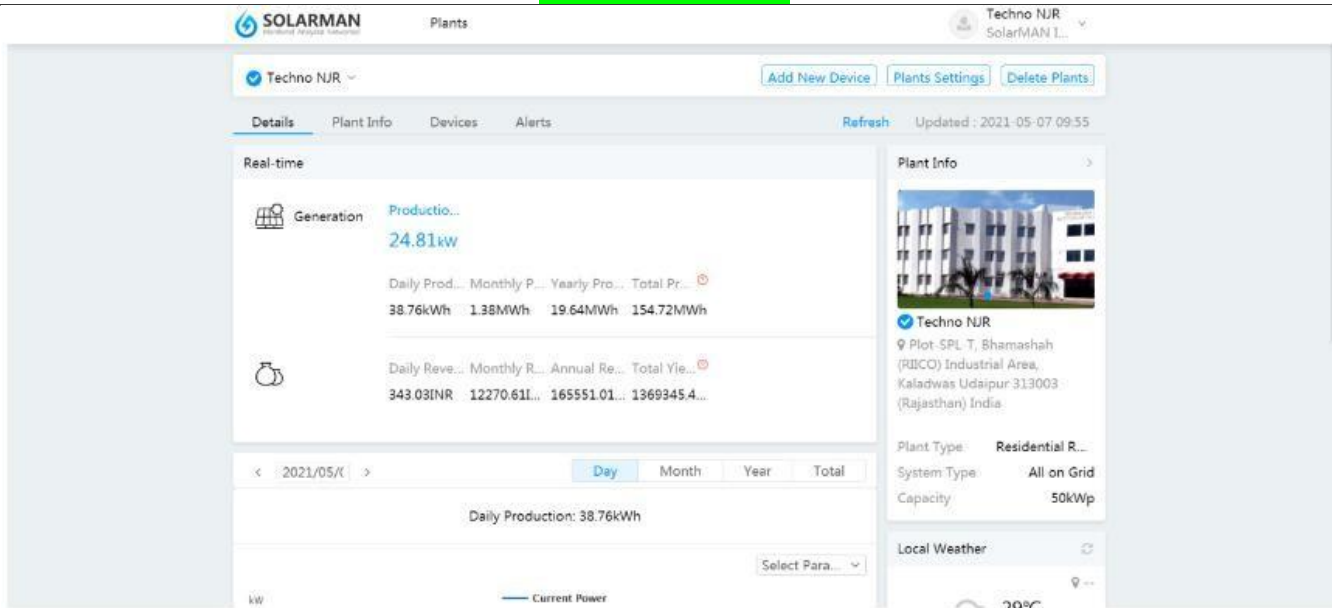
$$\begin{aligned} \text{Net Metering} &= \text{Import Units} - \text{Export Units} \\ &= 469948 - 9656 \\ &= \mathbf{46029} \end{aligned}$$

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Geo tagged photographs



Solar Power Plan

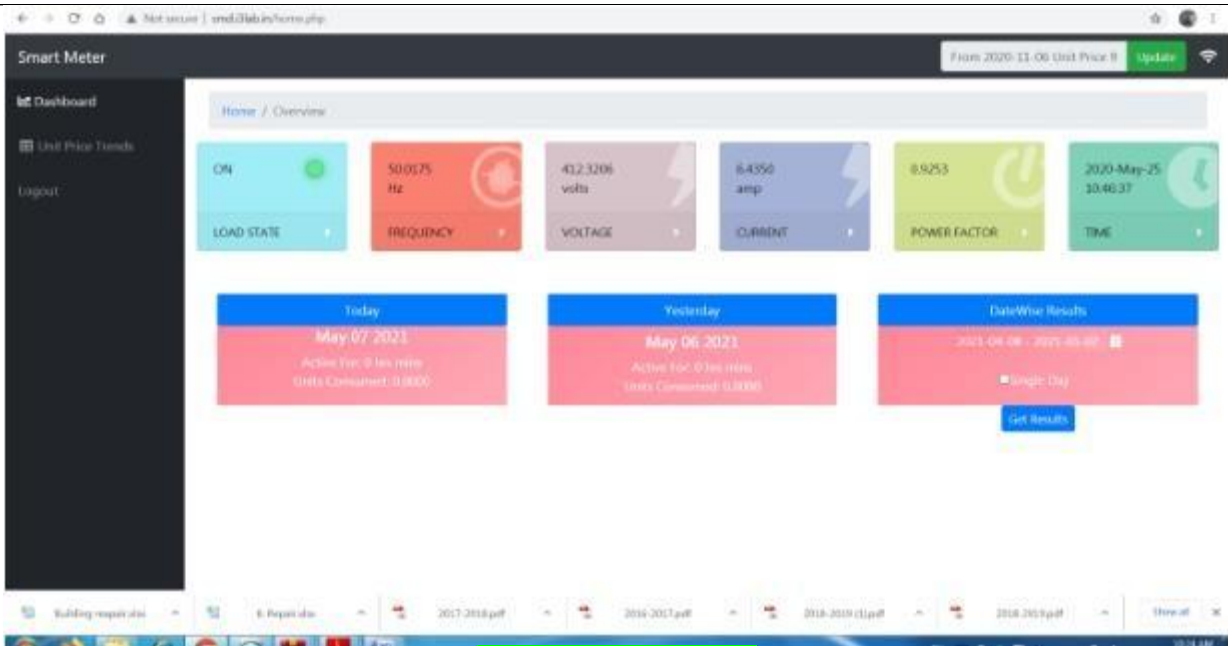


Solar-Man Dashboard

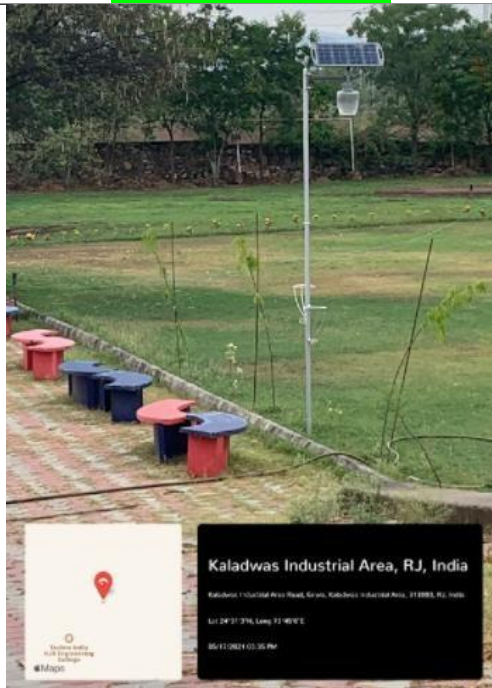


Smart Meter

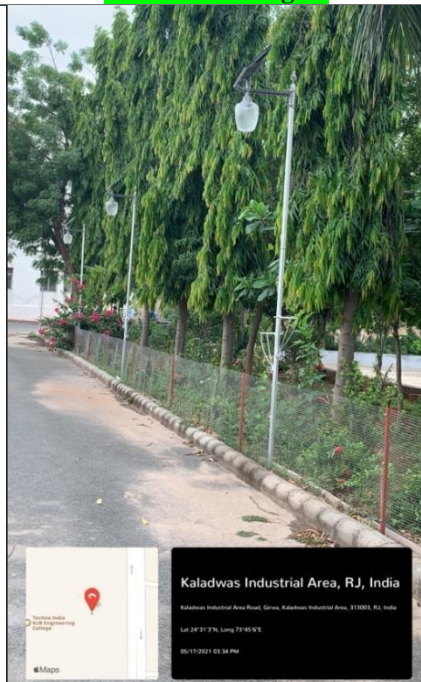
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Smart Meter Dashboard



Solar Streets Lights



Solar Streets Lights



Solar UPS System

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Data on solar and grid, Biogas, led bulb etc.

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2	Solar water Heater system	1	09/10/2015	1000 liters
3	Solar Streets Led Lights	10	1/10/2020	20W*10 (quantity) = 200 W
4	LED tube light	813	1/10/2018	20325 W

Number of LED LIGHTs

Department/Office	LED Tube light
Director Office	6
Principle Office	9
Chemistry Lab	16
Physics Lab	6
Chairperson Room	2
Account Dept	2
Exam Dept	5
Staff Room	30
Library	16
Classrooms	216
Pantry	3
Seminar Hall	16
Wash room	18
Passage	60
Dept Labs	256
I3 Lab	21
Mechanical Workshop	30
Hostel	40
Canteen	16
Main Entrance	16
Gym	15
Visiting Room	2
Parking Area	12
Total Quantity	813
Avg. Wattage rating of single appliance(W)	25 W

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