



UV Power

WELCOME

Enlightenment..? Switch to us..!

Introduction

- ▶ We are a set of professionals who are certified to design PV systems and have working background of installing solar system of Mega watt range in industrial sector & assembling multiple solar solutions to the customers.
- ▶ From last few years, we designed, developed and supplied several solar products across India which are useful for construction sector, and are found to be cost efficient, economical, maintenance free and environment friendly
- ▶ Commercial Consumers generally put their efforts in capital management and business sales and very rarely give a thought on reduction of operational expenses (where they could really gain much)
- ▶ Here, we guide our customers in such a way to cut down their operational expenses by proper energy audit and suggest correct usage of renewable green energy sources.

Solar installed capacity in India over last 5 years:



1

Solar Mobile Light Tower

1. High efficient lighting of 56000 lumens delivered
2. Backup Time of 13-14 hours guaranteed
3. Auto ON/OFF mode available
4. Robust trolley design with suspension

2

Solar Mobile hybrid light Tower

1. Solar Light Tower + Welding Generator combo
2. Generator acts as AC generator and welding generator by changing mode
3. Lambordini / Kohler engine

3

Solar All-in-one & Semi street lights

1. Integration of Solar power with Street lights is new age lighting solution.
2. No External supply from DG set / EB line
3. No Cable required
4. Saves Fuel/energy
5. Auto On/Off

4

Solar AC

1. Installed with high efficient compressors
2. 5 star rated conventional 1.5T split ac = 1.4 KW where as Solar AC = 800W
3. Runs on Both AC & DC

5

Solar Roofing

1. Leak Proof, Fire proof roofing with point load handling capacity of 200kgs
2. Each panel weighs 45 kgs and robust mounting will be done on roof

6

Solar Pumps

1. Can be used at chilling plants & Batching plants
2. Solar panels can be installed directly on top of water tanks to eliminate further cooling of water during day time

7

On-Grid, Off-Grid systems

1. Requirement analysis & system design from experienced people
2. Robust Layouts with design engineers and perfect engineering with certified electricians

8

LED Luminaries

1. 5 years minimum guaranteed UV Power lights
2. LED flood light - upto 300W
3. LED street light - upto 250W
4. LED COB lights
5. LED lights with lenses

Insights
on our
Products

Solar Mobile Light Tower



Solar Integrated Roofing



Solar On-Grid system



Solar Off-Grid system



Solar Pumps



Other Products

- ▶ *Solar systems for Weigh Bridges*
- ▶ *Solar Hybrid Systems for 20 feet and 40 feet Containers*
- ▶ *Customized Solar Solutions for any requirements*
- ▶ *Solar + Wind Turbine Hybrid Highway Lighting is in design phase & estimated to be completed by next quarter*



We deal

Clients:

- ▶ Larsen & Toubro Ltd., (Construction)
- ▶ TATA Projects Ltd.,
- ▶ JMC Projects (NDIA) Ltd.,
- ▶ KALPATARU Power Transmission Ltd.,
- ▶ ONGC
- ▶ MEIL (Megha Engineering Infrastructure Limited)
- ▶ GR Infracore Ltd.,
- ▶ NCC Ltd.,
- ▶ Ashoka Buildcon Ltd.,
- ▶ AIC Infrastructure Pvt. Ltd.,
- ▶ Dilip Buildcon Ltd.,
- ▶ KCC Infra ,

Industries/Sectors:

- ▶ Construction industries
- ▶ Petrol Pumps
- ▶ Shopping complexes
- ▶ Milk Chilling stations
- ▶ RO Plants
- ▶ Rice Mills
- ▶ Food Processing Units
- ▶ Industries/Production units
- ▶ Pharmaceutical companies
- ▶ Commercial buildings

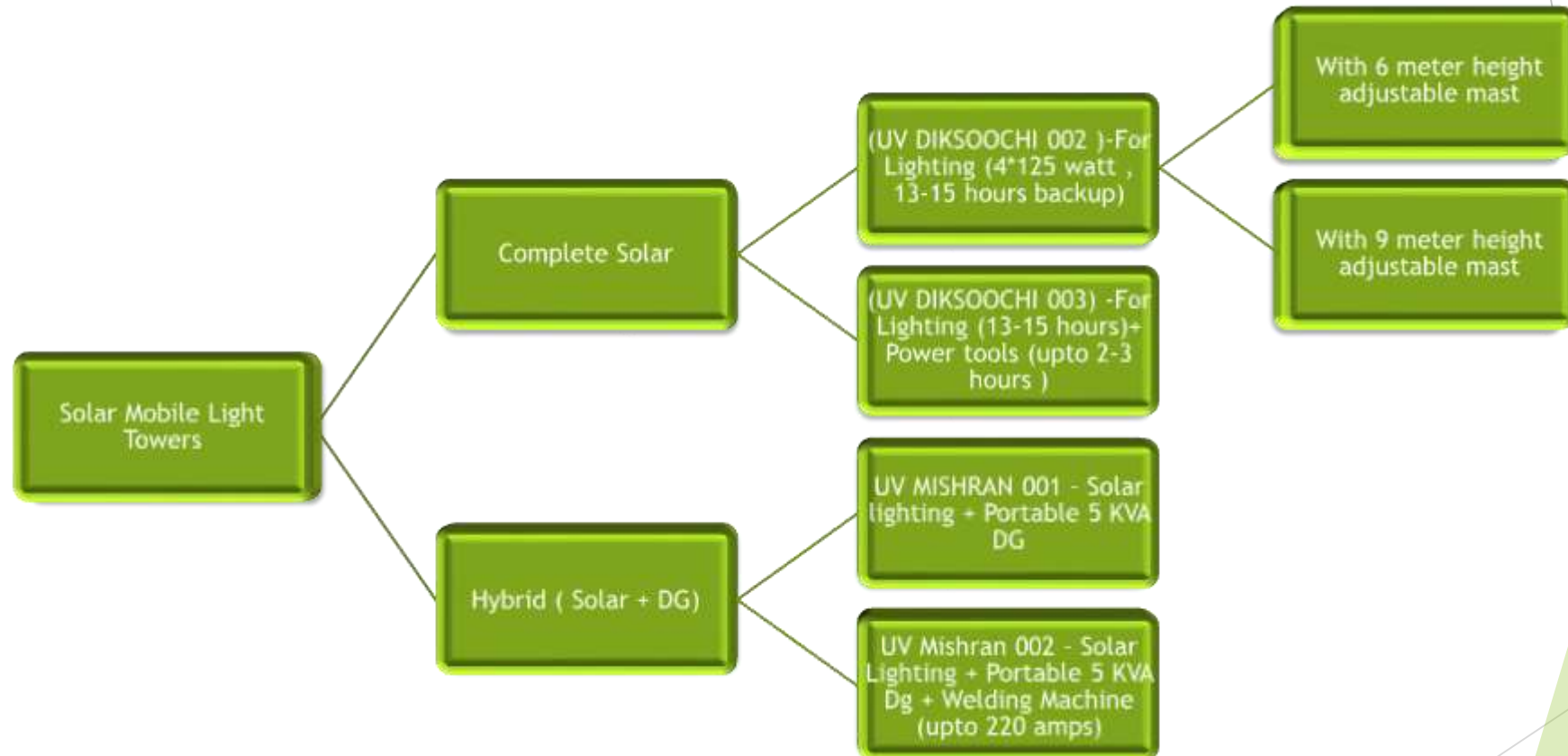
Brands:

Waaree, Vikram Solar, JA Solar, K Solare, Zpower, Enertech, Growatt, Polycab, Philips, Osram

Major Projects we dealt with:

- ▶ Delhi International Airport
- ▶ Hanimaadhoo International Airport , Maldives
- ▶ High speed rail C4 (Bullet Train)
- ▶ High speed rail C6 (Bullet train)
- ▶ HRRL (HPCL Rajasthan Refinery Limited)
- ▶ DFCC (Dedicated Freight Corridor)
- ▶ Chennai Metro Rail
- ▶ Jal Jeevan Mission Projects (in 4 states)
- ▶ Navi Mumbai International Airport
- ▶ Aurangabad Karodi Road Project
- ▶ Mumbai Vadodara Expressway
- ▶ Dhubri Phulbhari Bridge project
- ▶ Ganga Expressway
- ▶ Dwaraka Expressway
- ▶ Mumbai Nagpur Samruddhi Expressway
- ▶ Chennai Peripheral Ring Road Project

Solar Mobile Light Towers - Models



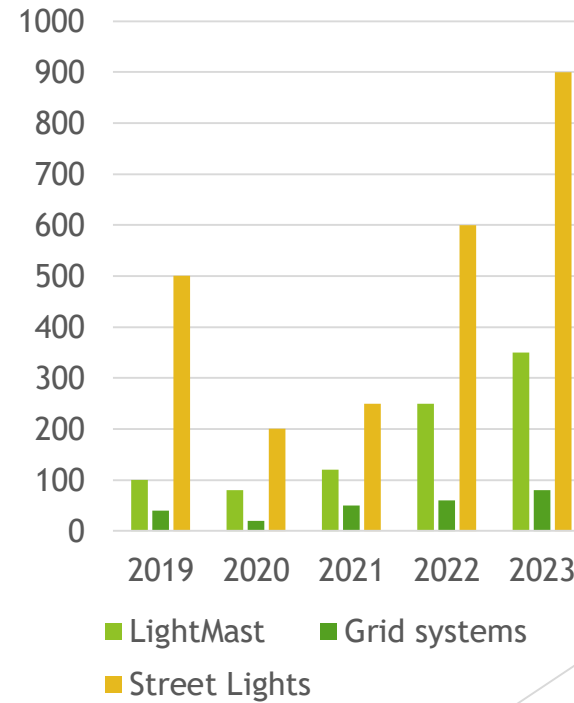
FEATURES OF UV DIKSOOCHI 002

- ▶ Lighting Capacity : 4*125 watt / 4*150 watt .
- ▶ 140 lumens/watt luminous efficacy
- ▶ Minimum backup time (per day) : 14-15 hours / 12-13 hours
- ▶ Works in all climatic conditions (with minimum back up time of 9-10 hours in rainy and winter seasons)
- ▶ Rigid and Robust Mobile Trolley to move on all terrains
- ▶ Height Adjustable mast with 360 degrees rotatable frame for lights
- ▶ Auto dusk to dawn operation sensing ambient light
- ▶ MPPT (Maximum Power point Tracking) charge controller with display of all parameters
- ▶ Optional items :
 - ▶ Mobile charging points
 - ▶ LED bulbs with extension chords
 - ▶ External charging
 - ▶ Remote monitoring of all parameters including energy produced and instantaneous power (through mobile app)
 - ▶ Remote control of lights (through mobile application)

SOME WORKING PICS OF UV DIKSSOCHI 002 (BEST SELLING PRODUCT OF OURS)



Sales Statistics



COST BENEFIT / BREAKEVEN ANALYSIS OF UV DIKSOOCHI 002

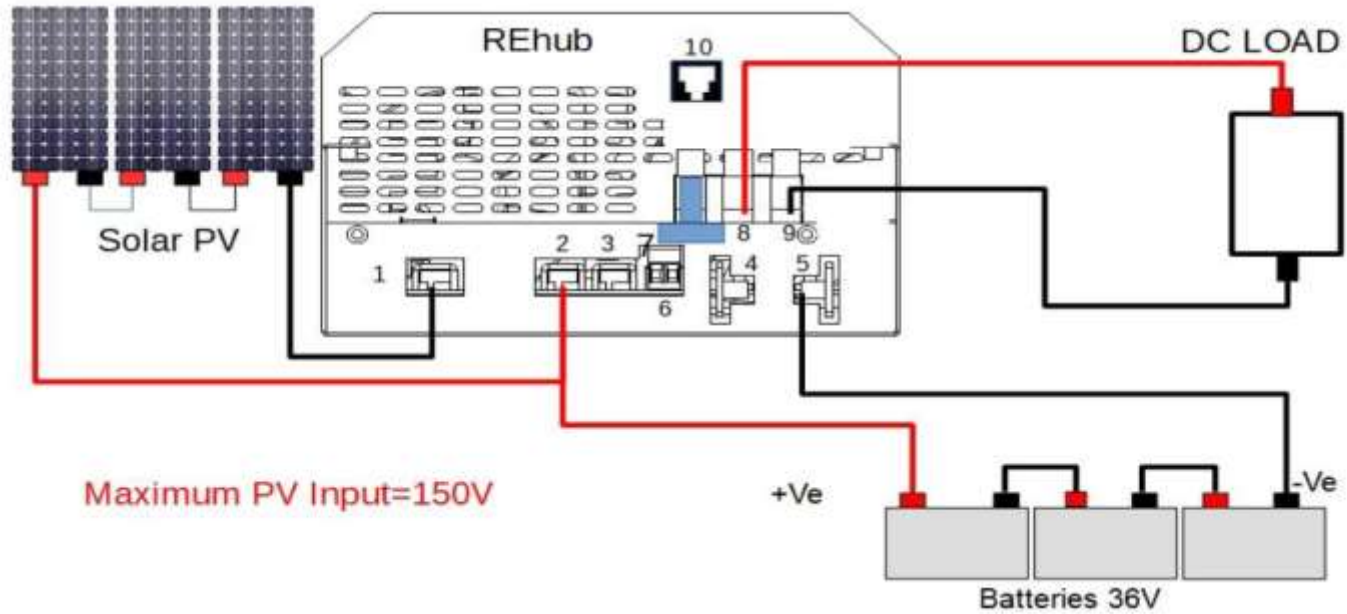
COST BENEFIT ANALYSIS OF 4*150 WATT SOLAR LIGHT MAST SYSTEM (UV Diksuchi 002)

S.NO.	DESCRIPTION	QTY	UOM	REMARKS
1	CAPITAL COST OF COMPLETE SYSTEM WITH TROLLEY AND MAST	3,45,000	Rs	
2	MIN. BACK UP TIME	13	HOURS	DURING MONSOON
3	LUMENS OUTPUT	78000	LUMENS	
4	COST OF FUEL CONSUMED BY THIS SYSTEM	0	Rs	NO FUEL REQUIRED AT ALL
5	FUEL CONSUMED BY CONVENTIONAL LIGHT MAST (PER DAY)	10	Litres	@0.8LPH , 12 OPERATING HOURS
6	COST OF FUEL THAT THIS SYSTEM CAN SAVE PER MONTH	25200	Rs	
7	MIN. MAINTENANCE COST OF CONVENTIONAL LIGHT MAST (PER MONTH)	3500	Rs	CONSIDERING 300 OPERATING HOURS PER MONTH
7	TIME TO REACH BREAKEVEN (ROI)	12	MONTHS	
8	MIN. LIFE OF SYSTEM	180	MONTHS	LIFE OF PANELS WOULD BE 300 MONTHS (25 YEARS)
9	TOTAL O&M COST OF THIS SYSTEM FOR 15 YEARS	319667	Rs	COMPLETE DETAILS CAN BE SEEN FROM O&M COST ANALYSIS SHEET in the next tab
10	OVERALL SAVINGS FOR 15 YEARS (PER SYSTEM)	4501333	Rs	AFTER DEDUCTING CAPITAL COST and O&M COST FOR 15 YEARS

SAFETY FEATURES IN UV DIKSSOCHI 002

- ▶ ELECTRICAL SYSTEM IS PROTECTED FROM :
 - ▶ PV SHORT CIRCUIT (Active Protection)
 - ▶ LOAD SHORT CIRCUIT (Active Protection)
 - ▶ BATTERY OVER CHARGE (Charging stalls once battery voltage reaches 43.95 volts)
 - ▶ BATTERY OVER DRAIN (Load will disconnect at battery voltage of 27.75 volts)
 - ▶ PV REVERSE POLARITY (Active Protection)
 - ▶ BATTERY REVERSE POLARITY (Active Protection)
 - ▶ HIGH TEMPERATURE (derate output after 60 degrees and switch off at 65 degrees)
 - ▶ OVER CURRENT (Solar output current is limited to 33 Amps)

ELECTRICAL SCHEMATIC



Port #	Description	Port #	Description
1	PV -Ve	6	Ext Temperature Sensor
2	Common Batt +Ve, PV +Ve	7	FUSE
		8	Load Positive
3,4	Do Not Connect	9	Load Negative
5	REhub Batt -Ve	10	Data Port

Charge Controller Set points

1. Configuration set points

Configuration Set Points			
S/No	Specification	Specification Offered	Set Value
1	Battery Voltage for Bulk Charging	Configurable	43.95V
2	Battery Voltage for Float Charging	Configurable	40.8V
3	Maximum Output from Charger	30A	33A
4	Bulk Charging Current (Max)	30A	25A
5	PV Open Circuit Voltage Max	160V	160V
6	Low Voltage Disconnect	Configurable	27.75V
7	Low Voltage Reconnect	Configurable	32.1V
8	Timer for Triggering Low Voltage disconnect / reconnect	Configurable	300 Secs

Warranty Terms of Sub Components

- ▶ Solar PV Modules : 25 years efficiency guarantee and 15 years product warranty
- ▶ MPPT Charge controller : 2 years
- ▶ Solar Deep Cycle Batteries : 3 years
- ▶ LED lights : 2 years
- ▶ Additional components : 1 year

PICS of Solar Hybrid System for Container offices and Remote Labour camps installed inside refineries



Solar All in one and Semi integrated lights



- ▶ Comes with complete 5 years warranty
- ▶ Safe and Stand- alone systems
- ▶ No external power supply or cables required
- ▶ Equipped with LiFePo4 batteries
- ▶ Equipped with PIR sensors
- ▶ Ranging from 15 watts to 100 watts Solar lights
 - ▶ Solar All-in-one
 - ▶ Solar Semi Integrated

THANK YOU

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side of the frame, creating a modern, layered effect against the white background.