



# Ram Aesis

Realty Pvt. Ltd



RUN BY:  
**WORLD BANK**  
CERTIFIED PROFESSIONALS



An ISO 9001: 2015  
Certified Organization



# RAMAESIS REALTY PVT. LTD.

**The Specialist in Solar Lighting System**

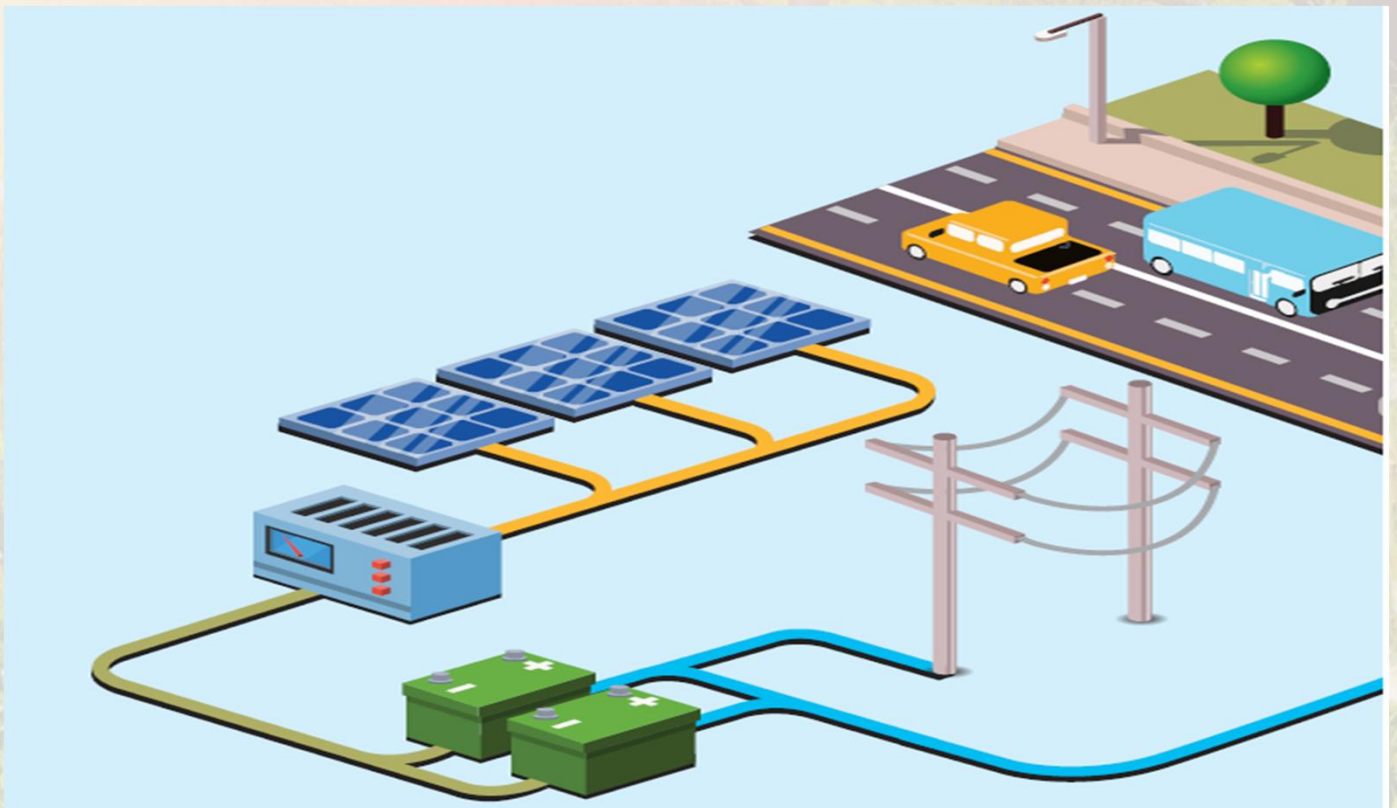
# INTRODUCTION

*Ramaesis Realty Pvt Ltd. (RRPL), a privately held company incorporated in the year 2010, started as a one point solution for customised fabrication with different materials for different events.*

*The specialized expertise in the field of customized fabrication and core vision to deliver quality to the clients enabled RRPL to always deliver customer delight with its professional leadership and dedicated team of trained personnel.*

*With around 20000 sq.ft of production area in 3 workshops in West Bengal at Nodakhali, Panagarh and Dharmada, RRPL has catered to different State Government projects as well as corporate and individual clients.*

*Our exhaustive range of products for all the solar related applications, is augmented by a team of qualified and experienced engineers and specialists. So when it comes to solar lighting, RRPL is the prime choice for being the solar system solution provider, with capabilities that includes installation, testing and commissioning. When you think of Solar Lighting think RRPL...*



# Solar Umbrella Multi Utility Device

RRPL-24 (TP)



## Shade, Water, and Energy all in one device

### **Sustainable Outdoor Shade**

*It is a versatile sustainable technology device that can be installed for multiple applications including shading at your home or business.*

*It is best used as a car park shade, park shade, outdoor cafe shade, walkway shade and other such applications.*

### **Generates Solar Power**

*Using a highly absorbent panel of SRI (Solar Reflective Index) rating of 102, our shade harvests sunlight and stores the solar power.*

### **Self Lighting System**

*1080W lights up in the night utilizing solar power stored in Li-on battery packs, which reduces your power costs.*

### **Harvests Rainwater**

*During the monsoon season, water is collected in the inverted umbrella and can be stored for later use.*

### **Access Clean Water**

*1080W incorporates our patented filtration system.*

*Water harvested through our inverted umbrella meets WHO's standard of potable water.*

### **Quick Easy Installation**

*As a light-weight but high wind tolerance structure, the 1080W is a smart canopy that can be installed within a few hours and requires minimum onsite preparation.*



#### Applications



Parking



Electric Charging



Outdoor Spaces



Smart Cities



Walkway



Workstation

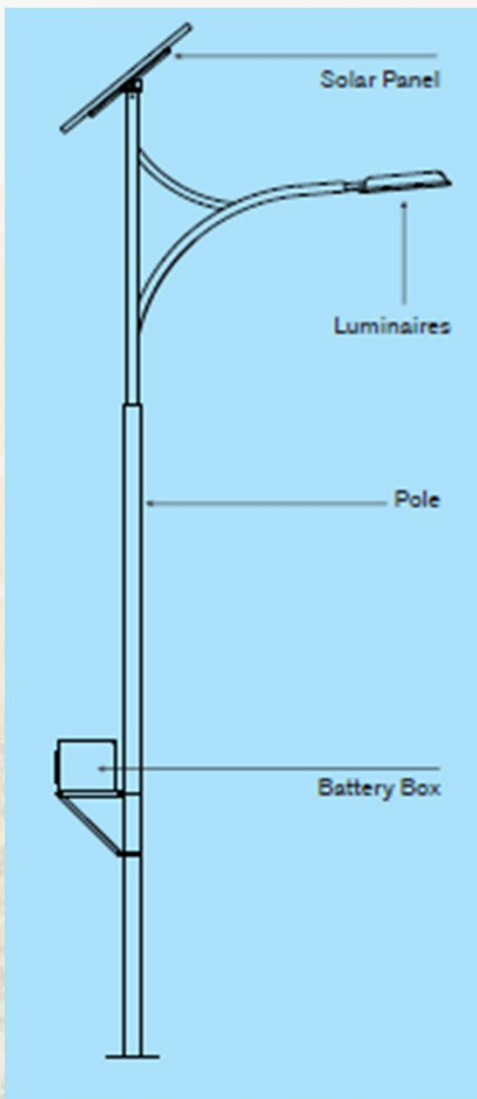
# Stand Alone Solar Street Lighting System

RRPL-25 (TP)

## SOLAR ENERGY

### Advantages

1. *No trenching, cabling or wiring.*
2. *Storable and retrievable form of energy.*
3. *No pollution, environment friendly and less operational cost.*
4. *Does not require skilled manpower to operate.*
5. *Illuminates remote place where grid supply is not available.*
6. *Longer life with minimum maintenance.*
7. *More safe and easy to install.*
8. *Support for Green initiative and LEED Certifications.*



### Pole

*Pole can be supplied with standard and customized requirements depending upon applications with following options:*

1. *Long life and anti- corrosive GRP pole which can be embedded or flange type*
2. *Hot Dip galvanized octagonal smart pole*
3. *G1 class B steel pipe with powder coated option.*
4. *Ms painted pole*



# Tri Solar Street Lighting System

RRPL-26 (TP)

## **LED LUMINAIRES**

1. 3 Nos. of highly efficient LED street light / flood light mounted at top of pole with 90° separation.
2. Specially designed optics with highest quality lens which will give good uniformity and wider area coverage.
3. Proper heat sink is designed to take care of thermal management that maintains the desired life and lumen output of LED.
4. LED chips are with high lumen packages having longer life.
5. Luminaires are designed for higher IP protection.

## **SOLAR PV MODULE**

1. High efficiency poly crystalline solar modules are tested for longer durability and manufactured with innovative technologies.
2. Modules are available in wide Watt power range suitable for different applications.
3. Modules are designed for withstanding highly corrosive atmosphere and heavy wind loads. Tested as per IEC 61701.
4. Junction boxes are supplied with IP65 protections.
5. Solar panels are certified for industry standard IEC 61215, IEC 61730 (Safety class 1&11), IEC 61701 and CE.

## **BATTERY**

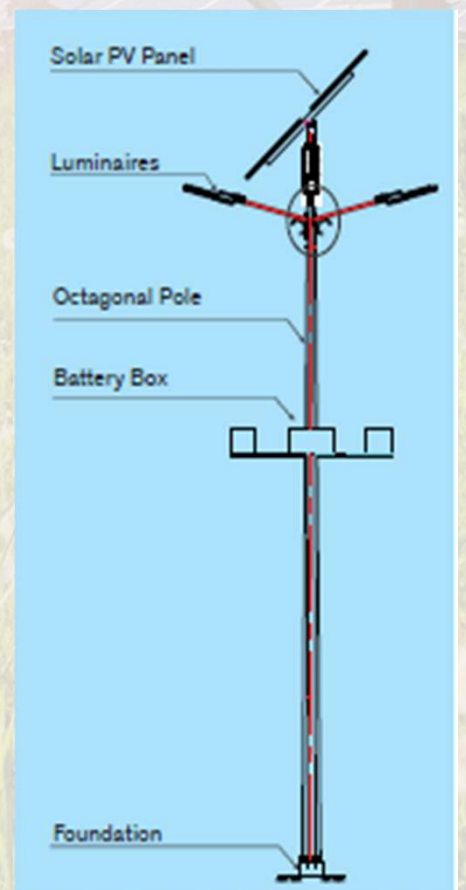
1. Battery rigorously designed for solar lighting applications.
2. Reduced topping up frequency.
3. Suitable for frequent cyclic duty.
4. Available in Tubular Flooded and SMF version

## **POLE**

Pole can be supplied with standard and customized requirements depending upon applications.

Options:

1. Hot dip galvanized octagonal smart pole.
2. Long life and anti-corrosive GRP pole which can be embedded or flange type.



# Centralized Solar Street Lighting System

RRPL-27 (TP)

## **Centralized Street Light PCU**

**Range - 500VA, 1 KVA, 2, KVA, 3KVA, 4KVA, 5KVA, 6KVA**

## **Concept of Centralized Street Light PCU**

*The existing street lights so far powered from grid supply are powered from centralized solar power plant in clusters of 10 with provision for grid backup.*

*The existing street lights with 40W tube lights or equivalent & filament lamps are replaced with 20W LED Lights*

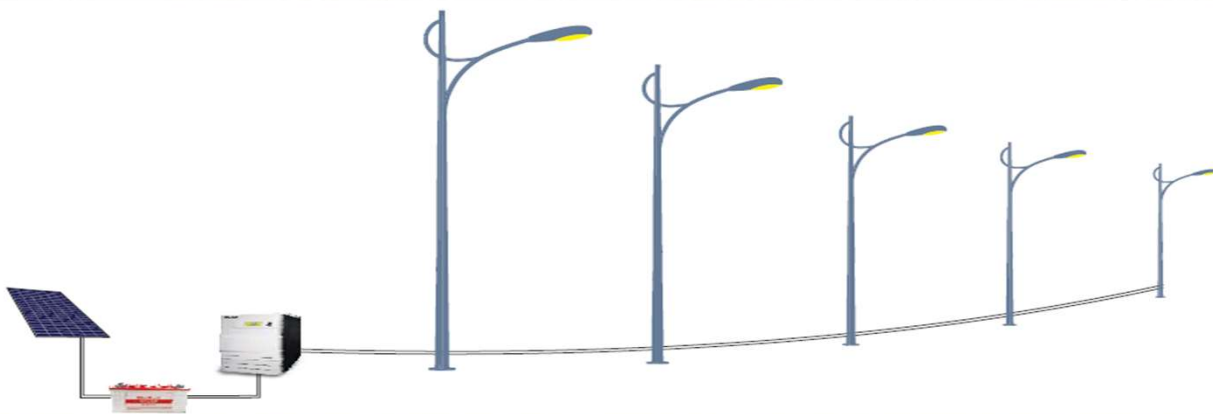
*The Smart Power Conditioning Unit in the system allows charging of battery from grid, only in rainy or cloudy days, when solar power is not sufficient to charge the battery in full during 10.00 am-6.00 pm only*

## **Features**

- *True Energy meter for output parameters : inverter output ac V, I, VA & kWh.*
- *Solar PV array's generation kWh, V and I.*
- *Battery Voltage, charging & discharging current along with graphical indication of battery status.*
- *Input power factor of grid battery charger 0.85 with >85% efficiency CD nominal ac input V.*
- *RTC Based system operation for street light.*
- *RTC for date and time display.*
- *IEC Test reports as per MNRE guideline*

## **Centralized Street Light Advantage Over Standalone**

- *Centralized street light are easy to maintain (Battery top up and Module cleaning)*
- *Integration of AC(PCU) is possible in centralized street light (battery can also charge with grid supply during non-availability of solar)*
- *Prevention of theft.*
- *Low Maintenance cost.*



*Solar module will convert the solar energy on to electrical energy during the day time which is stored in to the battery. During the night time stored energy is converted to 230 AC using highly efficient inverter and is supplied to the load as in case of conventional grid supply system.*

*Our design expert will work out the optimum system design solution considering the number of street lights and illumination level requirements.*

*System can be powered from the normal grid supply in case of cloudy days or incase of insufficient day light to charge the battery*

### **APPLICATIONS**

*Parking lots, Schools, Colony lighting, Boundary lighting, Societies, Industries, Street light etc.*

### **FEATURES**

- *Existing street pole and wiring can be used.*
- *No limitations on system design.*
- *Shadow free installation.*
- *Batteries can placed inside room which is insulated from heat. Maintenance at one point.*
- *It can be monitored better against theft.*
- *Marginal increase in price from standalone system.*



*\*All Pictures Shown Are For Illustration Purpose Only. Actual Product May Vary Due To Product Enhancement.*

*\* TP = Trading Product*



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