



Branch Offices:

UM Green Lighting Pvt. Ltd. (Lucknow)

4A/ 240 Vishal Khand, Gomati Nagar,
Lucknow (U.P), Pin Code No.- 226010
Contact Person : Mr. Arvind Singh
- 09999158697

UM Green Lighting Pvt. Ltd. (Patna)

Opp. Jai Mata Di Nurshing Home,
Chitragupta Nagar, Kankarbagh,
Patna – 20 (Bihar)

UM Green Lighting Pvt. Ltd. (Chhattisgarh)

Shop No.217 B, 2nd Floor Lal Ganga's Midas Fafadih,
Raipur, Chhattisgarh

UM Green Lighting Pvt. Ltd. (Trivendrum)

ANAHITA'S, House No. – XIII/903 B, KINFRA ROAD,
St. Xavior Collage PO,Behind KINFRA APPAREL PARK,
Thumba – 695588, Trivendrum (Kerla)
Contact Person : Mr. Acharya (M)- 09495338768

UM Green Lighting Pvt. Ltd. (Guwahati)

House No. – 102, Patorkuchi Road, Basistha Chariali
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Contact Person : Mr. Mantu Bora - 09864037982

UM Green Lighting Pvt. Ltd. (Bhagwanpur)

184 – Lakeshwari, Bhagwanpur,
Haridwar – 247661, (Uttarakhand)

UM Green Lighting Pvt. Ltd.

(A UM Group Company)

Regd. Off.: 806, Devika Tower, 6,
Nehru Place, New Delhi-110019 (INDIA)

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Renewable Energy Systems

INTRODUCTION

UM Green is a renewable energy system developer and contractor, building large commercial & utility scale photovoltaic (PV) solar power plants solution and also a leading manufacturer of Energy Efficient LED Based Lighting Fixture & System.

The company is the part of Unitech Machines Limited (UML) to deliver alternate energy efficient solutions. Over the years UM Green have set the benchmark for excellence in the solar industry & Energy Efficient LED Lighting Fixtures and Solutions. On the experience of the parent companies, UML, UM Green is deploying innovative strategies, systems and technologies to revolutionize solar power generation and LED Based Lighting Fixtures & System.

EXPERTISE

UM Green is a full service engineering, procurement and construction (EPC) system integrator and **empanelled channel partner of MNRE accredited by "FITCH" under 1-B GRADE** providing an end to end solution from concept to commissioning and ongoing maintenance. A single source responsible for the entire project including Feasibility Analysis, Concept Design, Civil and Electrical Engineering, Coordination of Government and Private Funding, Materials Procurement and Management, System Installation, Project Management, Commissioning, Monitoring and Maintenance business, government, education and private industry.

We provide turnkey solar power solutions using the best equipment, technology, engineering and project management experience available in the industry. Our focus is exclusively on large-scale PV systems for business, education, government and utilities.

UM Green has one of the most experienced and skilled solar engineering departments, as well as accomplished project managers. We develop relationship with top local contractors to ensure the completion of the highest quality project.

UM Green Lighting Pvt. Ltd. is a flagship subsidiary company of UM Group to deliver alternate energy efficient solutions.

- *UM Group is 250 Million USD Multi-product, Multi-location Industrial conglomerate.*
- *UM Group Joint Venture Partners are -
Magneti - Marelli Italy, Nohmi Bosai Ltd. Japan, Zadi Italy*

Our Strengths

- *System Design & INSTALLATION*
- *Manufacturer of 'Base Electronics'*
- *Independent Suppliers*
- *Managed by Professionals*
- *FINANCIAL CAPABILITY*
- *EXCELLENT Reference*
- *Professionally Managed 'SERVICE CENTERS'*

MNRE CHANNEL PARTNER - ACCREDITED - 1B

Our Achievements - Installations

30000 Solar Street Light Systems

10000 Solar Home Light Systems

5000 Solar Lanterns

6 MW Solar Power Plants/Systems

Our Installations

STRENGTHS

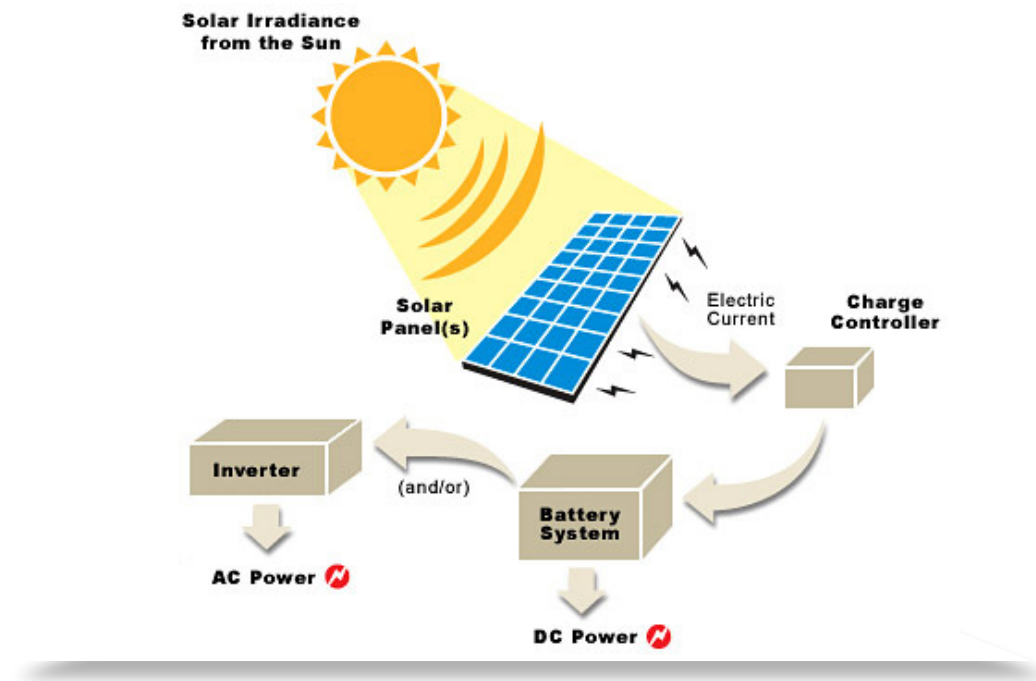
UM Green has completed several 'Best in Class' projects. It has one of the most experienced solar engineering team and project management experts. While UM Green benefits from its wide range of technical, financial and logistical skills that imparts it a competitive edge, its real strength lies in understanding of the local ethos and its ability to develop a strong relationship with local contractors, skillfully harnessing local capabilities. With its deep and wide experience, UM Green offers unbiased recommendations and best match of equipments based upon a thorough understanding of requirements. Its well-established vendor relationships ensure immunity from market fluctuations and supply-side issues. With its ability to develop a project through straight purchase, Power Purchase Agreement or Lease, it makes sure that its customers receive as much economic benefit as possible in the commissioning of the projects.

CONCLUSION

UM Green is the answer to all the requirements related to solar power generation. It is one of the front-runners in this field and is set to rise to the top with proven designs and installations and robust reliable equipment. A strong, vision driven leadership and growth-oriented approach ensures that this division treads the fine balance of economic, social and environmental growth and guides India to a brighter, well- lit future.

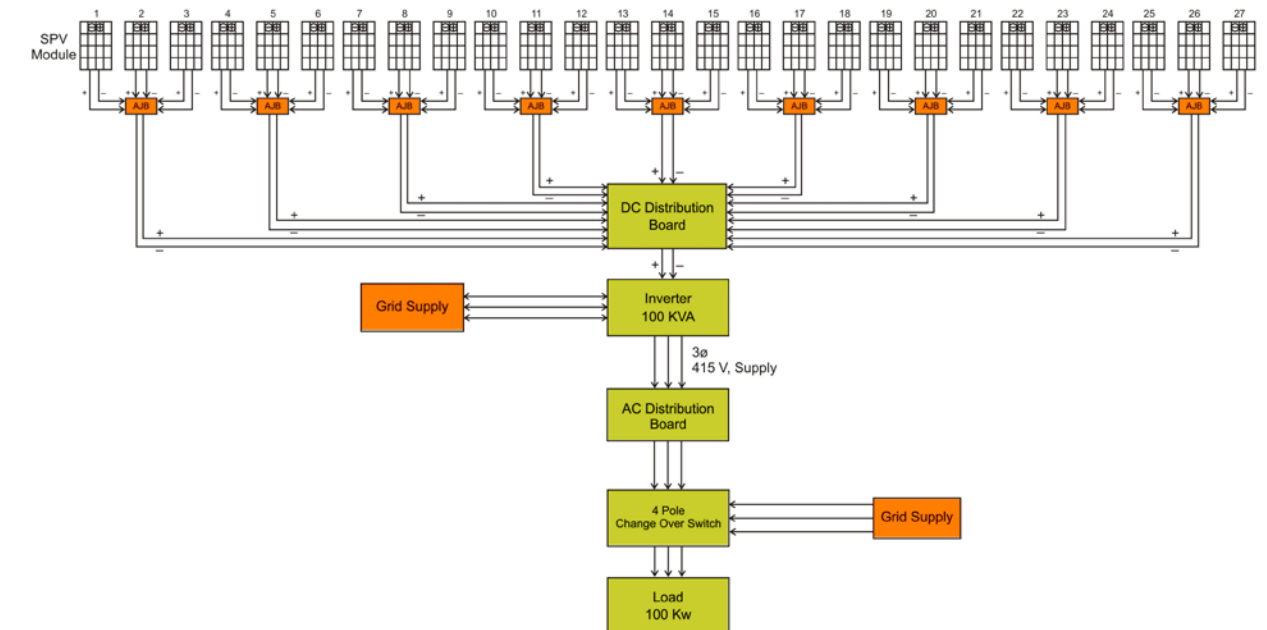


Solar - Power Plant (with Battery)



Sl.No	Type of power generator/ plant	Capacity of solar PV module	Battery Bank Capacity/ Configuration	PCU/Inverter Configuration	Usage in Hrs
1	1KW	1000 Wp	48V 300 Ah	48V/1KVA	7hrs - 8hrs
2	1.2KW	1200 Wp	48V 360Ah	48V/1.5KVA	7hrs - 8hrs
3	1.5KW	1500 Wp	48V 450Ah	48V/1.5KVA	7hrs - 8hrs
4	2KW	2000 Wp	48V 600Ah	48V/2KVA	7hrs - 8hrs
5	3KW	3000 Wp	48V 900Ah	48V/3KVA	7hrs - 8hrs
6	4KW	4000 Wp	96V 600Ah	96V/4KVA	7hrs - 8hrs
7	5KW	5000 Wp	96V 750Ah	96V/5KVA	7hrs - 8hrs
8	6KW	6000 Wp	96V 900Ah	96V/6KVA	7hrs - 8hrs
9	8KW	8000 Wp	120 V 960 Ah	120V/8KVA	7hrs - 8hrs
10	10KW	10000 Wp	120 V 1200 Ah	120V/10KVA	7hrs - 8hrs

Off-Grid Tie Solar Plant (without Battery)



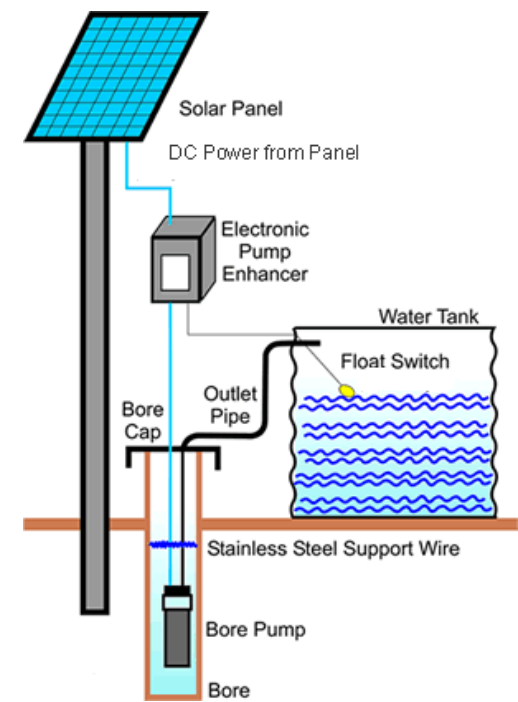
Sl.No	Description	Specifications	Capacity
1	Solar PV Module 250Wp	Mono / Multicrystline	100KW
2	Module Mounting Structure	Hot Dip galvanized	Suitable for 100KW
3	PCU with MPPT Controller	Sine Wave High effeciency	100KW
4	Junction Box	As per IP 65	Suitable for 100 KW
5	DC Distribution Board (DCDB)	As per IP 65	Suitable for 100 KW
6	AC Distribution Board (ACDB)	As per IP 65	Suitable for 100 KW
7	Connecting Cable	As per IS	Suitable for 100 KW
8	Earthing Protection System	As per IS	Suitable for 100KW
9	Lighting Arrester	As per IS	Suitable for 100 KW
10	Other accessories	As per MNRE Standard	Suitable for 100KW

Solar - Micro Grid



Technology	Solar Module	Solar Battery	Charge Controller Unit	DC Led Lamp with switch & Holder	DC Led Lamp with switch & Holder	Mobile Charging Facility
Solar Micro Grid (SMG) 10 House Hold	1 x 12V / 75Wp	1 x 12 V - 75Ah	1 x 12V / 10A	10 x2W	10 x1W	Provided
Solar Micro Grid (SMG) 20 House Hold	2 x 12V / 75Wp	2 x 12V - 75Ah	1 x 12V / 10A	20 x2W	20 x1W	Provided
Solar Micro Grid (SMG) 40 House Hold	2 x 12V / 150Wp	4 x 12V - 150Ah	1 x 24V / 20A	40 x2W	40 x1W	Provided
Solar Micro Grid (SMG) 50 House Hold	4 x 12V / 100Wp	4 x 12V - 100Ah	1 x 24V / 20A	50 x2W	50 x1W	Provided

Solar - Water Pump



Sl.No	Description of Pump	Model -UMG1	Model -UMG2	Model-UMG3	Model-UMG4
1	PV Array	1200Wp	1800 Wp	3000Wp	4800Wp
2	Motor Pump Set Type	1Hp Submersible with electronic controller	2 Hp Submersible with electronic controller	3Hp Submersible with electronic controller	5 Hp Submersible with electronic controller
3	Max. Total Dynamic Head	45 meters	45 meters	70 meters	70 meters
4	Module Mounting Structure	MS hot dipped galvanized, three times manual tracking facilities	MS hot dipped galvanized, three times manual tracking facilities	MS hot dipped galvanized, three times manual tracking facilities	MS hot dipped galvanized, three times manual tracking facilities
5	Water Output	42,000 liters per day from a total head of 30 mtrs.	63,000 liters per day from a total head of 30 mtrs.	63,000 liters per day from a total head of 50 mtrs.	1,00,000 liters per day from a total head of 50 mtrs.

Solar - CFL Street Light



SPECIFICATIONS

Model No.	UMG-7001	UMG-7002
Name	11W CFL STREET LIGHT	22W CFL STREET LIGHT
Watts	11W	22W
No.Of CFL /LEDs	1 CFL	2 CFL
CFL/LED Driver Efficiency (%)	86	86
CFL/LED Lumen Efficiency/ Watt	80-90	80-90
Rated Lamp life Hrs	10,000	10,000
Voltage	12V	12V
Operating Temprature	0 to 50 °C	0 to 50°C
Humidity	95% rh	95% rh
Protection (i)	open circuit	open circuit
ii	short Circuit	short Circuit
iii	Over Charge & Deep Discharge	Over Charge & Deep Discharge
iV	over Load	over Load
V	Reverse Polarity, Reverse Flow	Reverse Polarity, Reverse Flow
Battery Capacity (12V)	75Ah	100Ah
Solar Panel	74Wp	120Wp
Pole	Made of Galvanized Iron	Made of Galvanized Iron

Solar - LED Street Light



SPECIFICATIONS

Model No.	UMG-7003 / UMG-7004	UMG-7005 / UMG-7006
Name	9W LED STREET LIGHT / 12-15W LED STREET LIGHT	18-24W LED STREET LIGHT / 36W LED STREET LIGHT
Watts	9W / 12-15W	18-24W / 36W
No.Of CFL /LEDs	9 LED / 12 LED	24 LED / 36 LED
CFL/LED Driver Efficiency (%)	93 / 92	95 / 92
CFL/LED Lumen Efficiency/ Watt	110-140	110-140
Rated Lamp life Hrs	50,000	50,000
Voltage	12V	12V
Operating Temprature	0 to 50°C	0 to 50°C
Humidity	95% rh	95% rh
Protection (i)	open circuit	open circuit
ii	short Circuit	short Circuit
iii	Over Charge & Deep Discharge	Over Charge & Deep Discharge
iV	Over Load	Over Load
V	Reverse Polarity, Reverse Flow	Reverse Polarity, Reverse Flow
Battery Capacity (12V)	40Ah / 75Ah	100Ah / 180 Ah
Solar Panel	40Wp / 74Ah	100Wp / 150Wp
Pole	Made of Galvanized Iron	Made of Galvanized Iron

Solar - CFL Based Home Light



SPECIFICATIONS		
Model No.	UMG-CFL 1	UMG-CFL 2
Product Name	MNRE -1 CFL Solar Home Light System	MNRE -2 CFL Solar Home Light System
No.of Lights/Loads	1 CFL Light	2 CFL Lights
PV Module	18Wp	37Wp
Lamps/Loads Wattage	1 CFL of 9W	2 CFL of 9W
Battery Tubular	12V-20Ah	12V-40Ah
Efficiency (%)	> 85%	> 85%
Constant brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Inverter	Quasi Sine Wave	Quasi Sine Wave
Operating Hours	15hrs	15hrs
System Voltage	12V DC	12V DC

Solar - CFL Based Home Light



SPECIFICATIONS		
Model No.	UMG-CFL 3	UMG-CFL 4
Product Name	MNRE -3 CFL Solar Home Light System	MNRE -4 CFL Solar Home Light System
No.of Lights/Loads	2 CFL Lights & 1 Fan	4 CFL Lights
PV Module	74Wp	74Wp
Lamps/Loads Wattage	2 CFL of 9W & 1 Fan 20W	4 CFL of 9W
Battery Tubular	12V-75Ah	12V-75Ah
Efficiency (%)	> 85%	> 85%
Constant brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Inverter	Quasi Sine Wave	Quasi Sine Wave
Operating Hours	15hrs	15hrs
System Voltage	12V DC	12V DC

Solar - LED Based Home Light



SPECIFICATIONS		
Model No.	UMG-LED 1	UMG-LED 2
Product Name	MNRE -1 LED Solar Home Light System	MNRE -2 LED Solar Home Light System
No.of Lights/Loads	1 LED Light	2 LED Lights
PV Module	6Wp	12Wp
Lamps/Loads Wattage	3W	2 LED of 3W
Battery Tubular	12V-7Ah	12V-12Ah
Efficiency (%)	> 85%	> 85%
Constant brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Operating Hours	15hrs	15hrs
System Voltage	12V DC	12V DC

Solar - LED Based Home Light



SPECIFICATIONS		
Model No.	UMG-LED 3	UMG-LED 4
Product Name	MNRE -3 LED Solar Home Light System	MNRE -4 LED Solar Home Light System
No.of Lights/Loads	2 LED Lights & 1 DC Fan	4 LED Lights
PV Module	24Wp	24Wp
Lamps/Loads Wattage	2 LED of 3W & 1 DC Fan 10W	4 LED of 3W
Battery Tubular	12V-20Ah	12V-20Ah
Efficiency (%)	> 85%	> 85%
Constant brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Operating Hours	15hrs	15hrs
System Voltage	12V DC	12V DC

Solar - LED Lantern



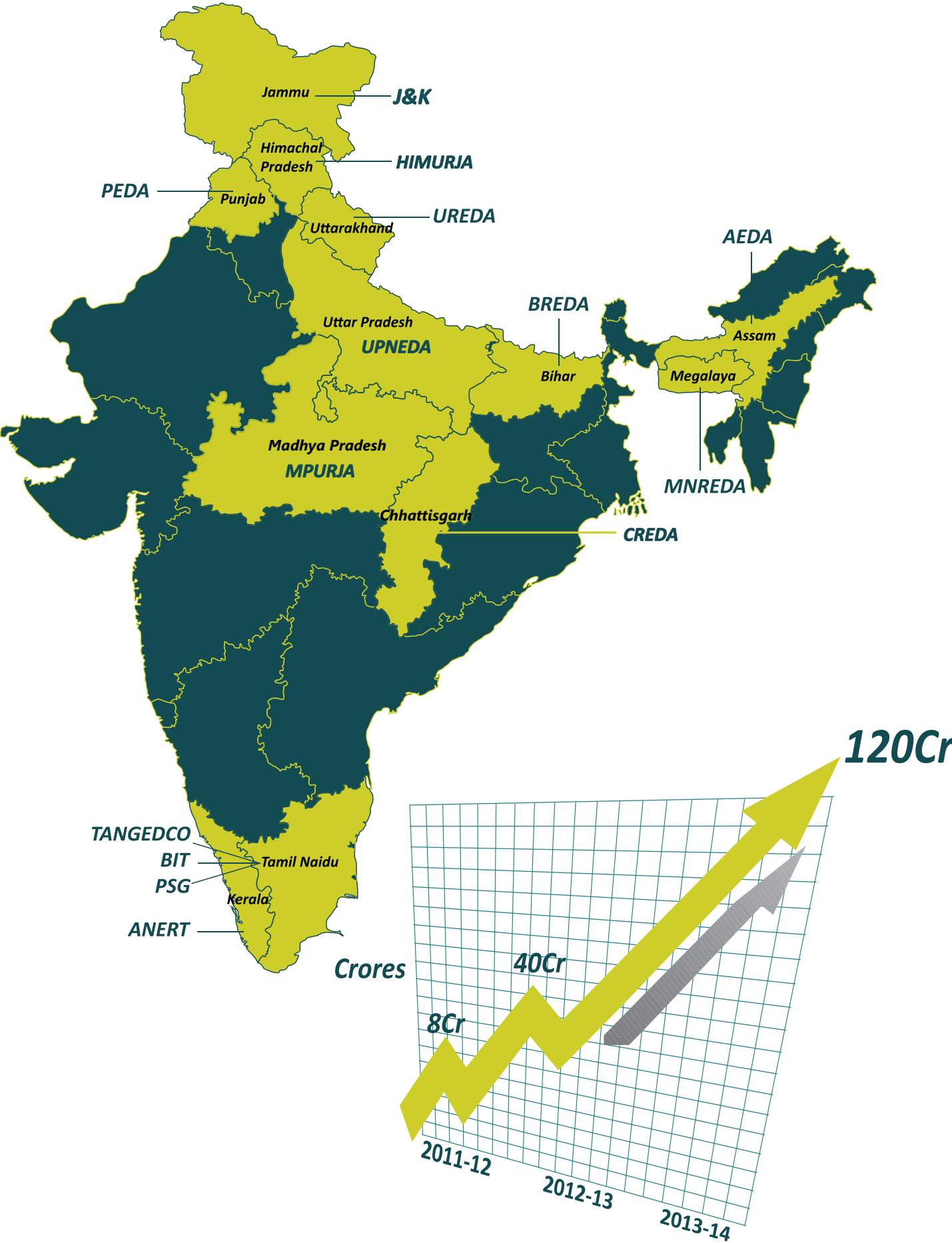
SPECIFICATIONS		
Model No.	UMG- 100	UMG- 101
Product Name	Green LED Lantern	MNRE LED Lantern
Runing at single Brightness	13hrs	38hrs
Runing at Double Brightness	7	18
Down Spot Light	Very Good	Very Good
General Level Light	Very Good	Super Excellent
No.of LEDs/CFL	3 LEDs	3 LEDs
Wattage	3W	3W
Solar Panel	6V-3W	12V-5W
Battery	6V/4.5Ah	12V-7.2Ah
Efficiency	> 85%	> 85%
Solar Charge & Mobile Charge	Yes	Yes
Optics	Anti Glare Lens	Anti Glare Lens
Distance(in feet)1ft	56/131	66/118
2ft	8.5/38	14.5/48
3ft	3.7/18	4.5/25
4ft	1.5/10	2.5/14
5ft	1.2/7	2.3/8
Constant Brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Dimensions (Height-Dia-Circuit Area) in (mm)	230-140-97*72	345-192-104*76

Solar - CFL Lantern



SPECIFICATIONS		
Model No.	UMG- 102	UMG-1003
Product Name	MNRE CFL Lantern	Eco LED light
Runing at single Brightness	6hr	13hrs
Runing at Double Brightness	7	7
Down Spot Light	Super Excellent	Very Good
General Level Light	Good	Very Good
No.of LEDs/CFL	1 Cfl	3 LEDs
Wattage	7W	3W
Solar Panel	12V-10W	6V-3W
Battery	12V-7.2Ah	6V/4.5Ah
Efficiency	> 85%	> 85%
Solar Charge & Mobile Charge	Yes	Yes
Optics	Anti Glare Lens	Anti Glare Lens
Distance(in feet)1ft	380 lumen	56/131
2ft		8.5/38
3ft		3.7/18
4ft		1.5/10
5ft		1.2/7
Constant Brightness	Constant light even with falling battery voltage	Constant light even with falling battery voltage
Dimensions (Height-Dia-Circuit Area) in (mm)	345-192-103*75	270-110-75

Pan India Pressence



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International Sector

Certifications

MNRE Channel Partner Certificate

MNRE Test Approval Certificate

ISO 14001:2004 Certificate

MNRE Test Approval Certificate