

*Revolutionary Lighting Systems*

*By*

**PROXIMON**

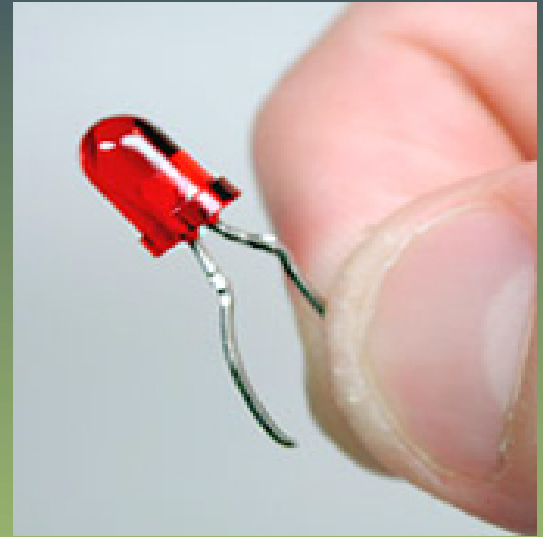
# What are LEDs ??

## LED – Light Emitting Diodes

- A Semiconductor diode that emits light when an electric current is applied

-High **power** LEDs project equivalent brightness compared to existing Metal Halide & Sodium Vapour lights at very low (approx. 30%) power consumption

-They have a longer lifespan than the conventional lamps (approx 4 times ) used for Lighting.



# TECHNOLOGICAL COMPARISON

	LEDs	Halogens	CFLs
Formulation	LED based	Metal Halide and Sodium Vapour	Mercury based
Lumens / watt	90-110	70-130	70-80
Life in hours	50,000 hours or more	10,000 -15,000 hrs	10,000 hours
Heat Dissipation	Cool lights	Extremely hot Dull Yellow & White Light	Dull Light
Toxic	Eco Friendly	Toxic	Toxic
Forms of lighting products	Lamps (Flood lights / Street lights) Tube Lights Retail Lights	Lamps (Flood lights Street lights)	Lamps (Rural Street lights) Tube Lights Retail Lights
Time Lag Switch on & illumination	Instant	On an avg, Lag of 15-20 mins	Instant
Illumination Spread	Even, focused & constant	Uneven, fluctuating & spillage	Uneven, fluctuating & spillage
Colour Rendering Index	80-85	Sodium – 25-30 Metal Halide – 80	50

# Facts on Electricity in India

- In June 2010, India had approximately 162 gigawatts, but due to its huge population, the electricity per capita was only 612 KWh/year. The world average is 2252 KWh/year thus making India one of the lowest of electricity producers.
- Roughly 400 million people do not have access to electricity in India. ( approx 28 % of the population )
- India is fourth largest carbon dioxide emitter of the world, with emission of 1.34 billion tonnes.
- In July of 2010, India and Bangladesh signed a 35 year power import deal whereby India will import up to 500 megawatts beginning in late 2012, to overcome the shortfalls.
- 18,000 MW power is used for lighting purposes alone annually in India. Hypothetically, if all lighting is converted to AC supply LED, the current 18,000 MW will reduce by 70% to 5,400 MW .India Inc. stands to gain Rs. 22,000 Crs by improving energy end use & supply efficiencies \*



A Depleting Resource



Green energy , Green World.

A BETTER FUTURE IS CALLING FOR THIS CHANGE

A CHANGE CALLED .....

*A company which originated and  
operates on 3 fundamental philosophies*

EGO

NOMICAL

LOGICAL

FRIENDLY

# COMPETITOR ANALYSIS

- Use 1 watt cluster formats
  - Do not match LUX levels of 150W / 250W / 400W / 1000W Metal Halide and Sodium Vapour Lamps
  - ROI: closer to 4/5 years
  - Save 50-60 % electricity
  - Majority of people import ready LED Lamps & sell
- Use High power Leds
  - Easily **match** LUX levels of 150W / 250W/400W/1000W Metal Halide and Sodium Vapour Lamps.
  - ROI: close to 3 years
  - Save 65-80 % electricity.
  - **Own manufacturing facility with Cleanroom area for the assembly of electronic components & LEDs in dust free atmosphere.**

PRODUCT

A

N

G

E



# Streetlights

COMMON FEATURES

LEDs	High power Leds
Night Time Dimming ( optional )	Up to 30%
Auto On - Off (optional)	As per the programmed time clock
High Brightness	High Lumen to LUX conversion
Enclosure	Dust & Weatherproof IP-65
Design	Unique & Revolutionary design of LED Lens & Casing
Unique Integrated Lens and Lampshade Design	Array Lens play a protective and spot light role, avoid wasteful duplication of light and reduce the loss of light
Thermal Design	Years of Experience of Thermal Design for better Heat Dissipation, Increased LED Life
Light Design	No Adverse Glare, better street illumination
	Less visual fatigue to drivers, increased road safety
Light Pollution	NO Light Pollution, NO Spillage, <b>NO Night Sky Glow</b>

# PSL 70

## SPECIFICATIONS

Equivalent to	70 W Sodium Vapour Lamp
<b>Electrical Specification:</b>	
Supply Voltage :	160 V - 260 V AC, 50 Hz
Power Factor:	Better than 90 %
System Power Consumption :	26 Watts
Efficiency :	> 86%
Colour Rendering Index (CRI)	> 78 Ra
Colour Temperature	5500 K
LUX At Pole Height - 7 Mtr below luminaire	<b>38 LUX</b>
Working temperature :	0 - 50* C, 95% Rh
Working Life :	50000 Hrs
Lamp Housing :	Cast Alluminium Alloy As per IP 65
Weight of the Lamp :	4 KGS

# PSL150

## SPECIFICATIONS

Equivalent to	150 W Sodium Vapour Lamp
<b>Electrical Specification:</b>	
Supply Voltage :	160 V - 260 V AC, 50 Hz
Power Factor:	Better than 90 %
System Power Consumption :	56 Watts
Efficiency :	> 86%
Colour Rendering Index (CRI)	> 80 Ra
Colour Temperature	5500 K
Lux at Pole Height - 9 Mtr below Luminaire	<b>48 LUX</b>
Working temperature :	0 - 50* C, 95 % Rh
Working Life	50000 Hrs
Lamp Housing :	Cast Aluminium Alloy as per IP 65
Weight of the Lamp :	4 KGS

# PSL250

## SPECIFICATIONS

Equivalent to	250 W Sodium Vapour Lamp
<b>Electrical Specification:</b>	
Supply Voltage :	160 V - 260 V AC, 50 Hz
Power Factor:	Better than 920%
System Power Consumption :	76.5 Watts
Efficiency :	> 86%
Colour Rendering Index (CRI)	> 80 Ra
Colour Temperature	5500 K
Lux At Pole Height -11 Mtr below luminaire	<b>50 LUX</b>
Working temperature :	0 - 50* C, 95 Rh
Working Life	50000 Hrs
Lamp Housing :	Cast Alluminium Alloy, as per IP 65
Weight of the Lamp :	5 KGS

# Flood Lights

COMMON FEATURES

LEDs	High power Leds
Night Time Dimming ( optional )	Upto 30%
Auto On - Off (optional)	As per the programmed time clock
High Brightness	High Lumen to LUX conversion
Enclosure	Dust & Weatherproof
Design	Unique & Revolutionary design of LED Lens & Casing
Unique Integrated Lens and Lampshade Design	Array Lens play a protective and spot light role, avoid wasteful duplication of light and reduce the loss of light
Thermal Design	Years of Experience of Thermal Design for better Heat Dissipation, Increased LED Life
Light Design	No Adverse Glare, better <b>Area</b> illumination
Light Pollution	NO Light Pollution, NO Spillage, <b>NO Night Sky Glow</b>

# PFL400

## SPECIFICATIONS

Equivalent to	400 W Metal Halide Lamp
<b>Electrical Specification:</b>	
Supply Voltage :	160 V - 260 V AC, 50 Hz
Power Factor:	Better than 92 %
System Power Consumption :	150 Watts
Efficiency :	> 86%
Colour Rendering Index (CRI)	> 80 Ra
Colour Temperature	5500 K
Lux At Pole Height -15 Mtr	<b>30 LUX</b>
Working temperature :	0 - 50* C, 95 Rh
Working Life	50000 Hrs
Lamp Housing :	Cast Aluminium Alloy, as per IP 65
Weight of the Lamp :	10 KGS

# PFL1000

## SPECIFICATIONS

Equivalent to	1000 W Metal Halide Lamp
<b>Electrical Specification:</b>	
Supply Voltage :	160 V - 260 V AC, 50 Hz
Power Factor:	Better than 92 %
System Power Consumption :	330 Watts
Efficiency :	> 86%
Colour Rendering Index (CRI)	> 80 Ra
Colour Temperature	5500 K
Lux at Pole Height -18 Mtr	<b>50 LUX</b>
Working temperature :	0 - 50* C, 95 Rh
Working Life	50000 Hrs
Lamp Housing :	Cast Aluminium Alloy, as per IP 65
Weight of the Lamp :	15 KGS

# PROXIMON LEDLIGHTS

Manufacturer of reliable **High Powered LED** Lighting Systems with **lower wattage consumption**