

# SOLAR TREE

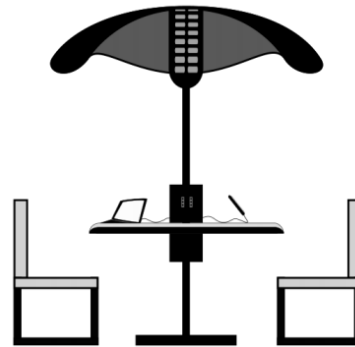


# GALAXY POWER.....

TECH SOLUTIONS



Experience | Expertise | Excellence



SMART CITY SOLUTIONS



[www.galaxypower.co.in](http://www.galaxypower.co.in)

8698046932 , 9762876684 info@galaxypower.co.in, galaxypower4u@gmail.com

Confidential



# KNOW ABOUT US

**Galaxy Power ..Tech Solutions** is a leading manufacturing company in the field of Environmental Solutions Energy Since 2007 “Galaxy Power” is the Sole Proprietorship based company Pune Maharashtra , India, Registered under **MSME. GST NO 27AMYPG3815B1Z1**

**GPTS** always tend to deliver best Quality product & services to customers:

## List of Products & Services



*Mr.Sanjay Gupta  
(Founder & CEO)*

**Solar Tree's**



**Solar Bench**



**Solar Tree EV Charger**



**Solar High Mask Lights**



**Solar Decorative  
Sunflower Garden Lights**



**Solar Module Mounting  
Structures**



**Solar Water Pumping  
Systems**



**Solar Water Heaters**



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**GPTS SERVICES** Operation & Maintenance, Annual Maintenance Contract

# GPTS \* Products & Services

Sr No	Product	Sub Product Type	PRODUCT CODE TYPE
A	Solar Tree	On Grid Connected - Solar	GPTS- GC STREE
		Off Grid - Solar Battery Storage	GPTS- BSTORE STREE
		Hybrid - Solar + Mains	GPTS- BTSTORE STREE
		Hybrid - Wind + Solar	GPTS- WIND STREE
B	Solar Leaf	Solar Leaf Circle	GPTS- SOLAR LEAF CIR
		Solar Leaf Oval	GPTS- SOLAR LEAF OVL
C	Solar Charging Station	Solar Electric Vehicle Charging	GPTS - SEVC
		Solar Gageets Charging Station	GPTS - SGCS
D	Solar Smart Bench	Solar Bench Leaf Shades	GPTS-SLSH - BENCH
		Solar Bench Seating	GPTS-SSE - BENCH
E	Solar Smart Street Light Poles	Solar High Mast Pole	GPTS - S - HIGH MAST POLE
		Solar Smart Display Billboard	GPTS - S - DISBILL POLE
		Solar Decorative Light Poles	GPTS - S - DEC- POLE
F	Solar Water Heater	Solar Water Heater - ETC	GPTS- SWH - ETC
			GPTS- SWH - FPC
G	Solar Pumps	Solar DC Submersible Pump	GPTS- SPMP -DC
H	Solar MMS Structure	Solar Carport	GPTS- SCARPT
		Solar Roof Top	GPTS- SRTOP
		Solar Ground Mounted	GPTS- SGRNDMTD

Services

Solar Operations and Maintenance

AMC

Help Line 24 x 7

# *Vision & Mission*

- *Vision*
- *Our vision is to ensure that solar energy is the leading contributor to India's energy system.*
- *Mission*
- *Our Mission is to shape the regulatory environment to promote the green energy in growing market. The company has a results-oriented approach for all of our clients and partners.*

*Responsibility to the members, to colleagues and for delivering the objectives of GALAXY POWER Creativity bringing the most creative solutions to the energy challenges faced by society today.*

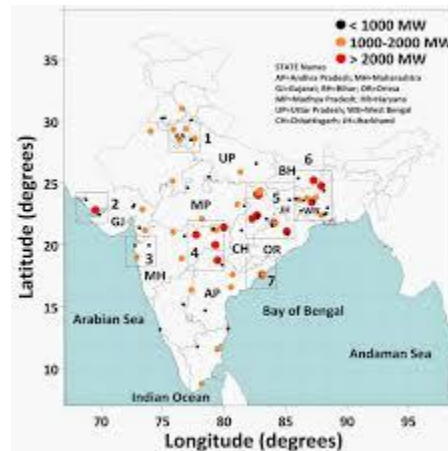
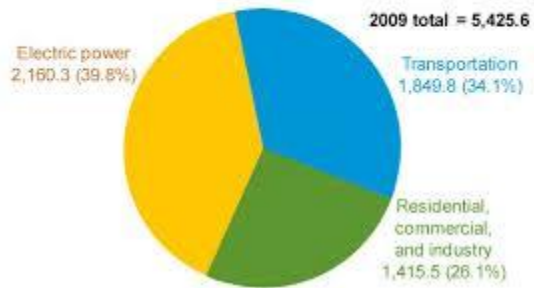




# Causes of Carbon Electricity

Figure 3. U.S. energy-related carbon dioxide emissions by sector, 2009

million metric tons carbon dioxide



# Resources of Clean & Green Energy

## SOLUTION OF ENERGY PROBLEMS IN URBAN LOCATIONS

- ❖ In urban location having large population, the problem of energy supply becomes even more difficult. Renewable energy source can solve such energy problems.
- ❖ Solar energy provides feasible design solutions for urban environment.
- ❖ The Solar Tree can be used for:
  - ❖ Uplifting the public opinion of citizens for renewable resources of energy.
  - ❖ At locations where free wireless internet is available it enables the people for free access of energy for charging their mobile and portable lap top devices.
  - ❖ Information like important city locations, phone numbers, institutions and addresses which could be accessed by everyone can be provided by several interactive info panels.

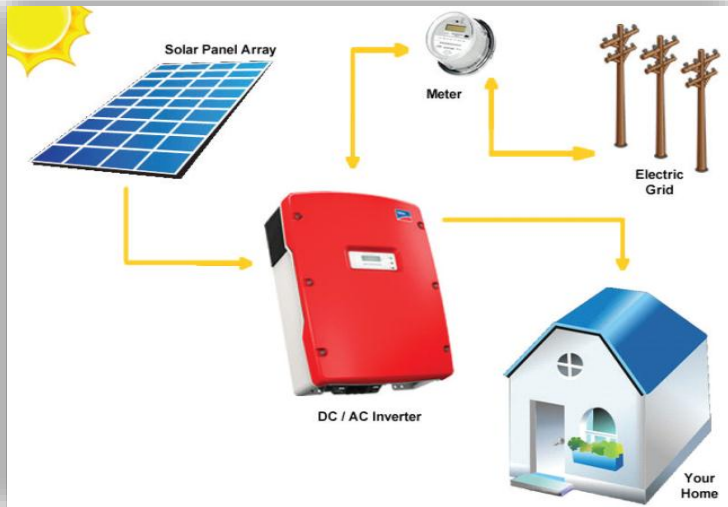


Solution Go Green Go Solar  
Plant as many as Solar Trees

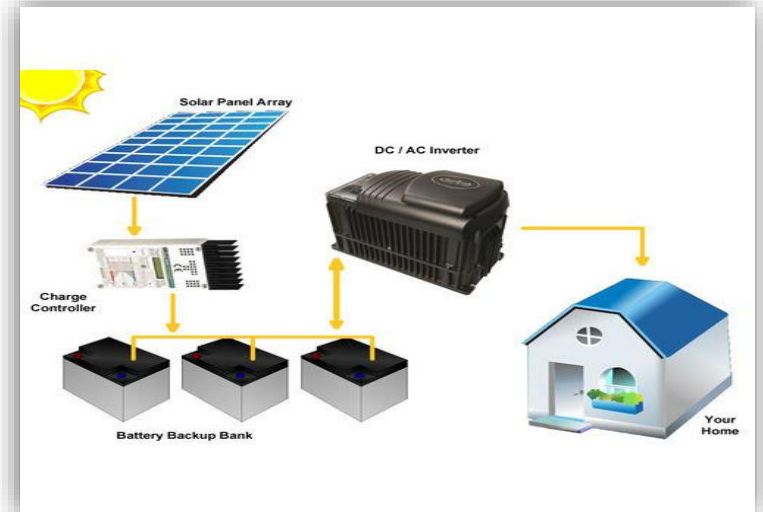


# Types of System

## On Grid (Solar)



## Off Grid (Solar + Battery Storage)



## Hybrid (Wind + Solar)



## Hybrid (Solar + Battery + Grid)





# WHY SOLAR TREE

- **Less Land Requirement:** In comparison traditional PV system, Solar Tree requires less land .Therefore a plant is generating maximum. Energy by using minimum land.
- **Efficient Energy Generation:** Solar Tree can generate energy very efficiently.
- **Collection of Energy from Wind:** Solar Tree with flexible stem rotating in any direction and by shaking themselves are able to produce energy also from wind like a natural tree.
- It is a combination of innovative design and advance technology. A solar tree is a decorative means of producing solar energy and also electricity. It uses multiple no of solar panels which forms the shape of a tree. The panels are arranged in a tree fashion in a tall tower.

## TREE Stands For:

**T** - Tree generating

**R** - Renewable

**E** - Energy and

**E** - Electricity

Solar Trees are efficient for capturing energy from sunlight and wind for producing energy as plants in nature.

## Components of Solar Tree

Solar Panels, Long Tower, LEDs, Batteries, Stems for connecting panel

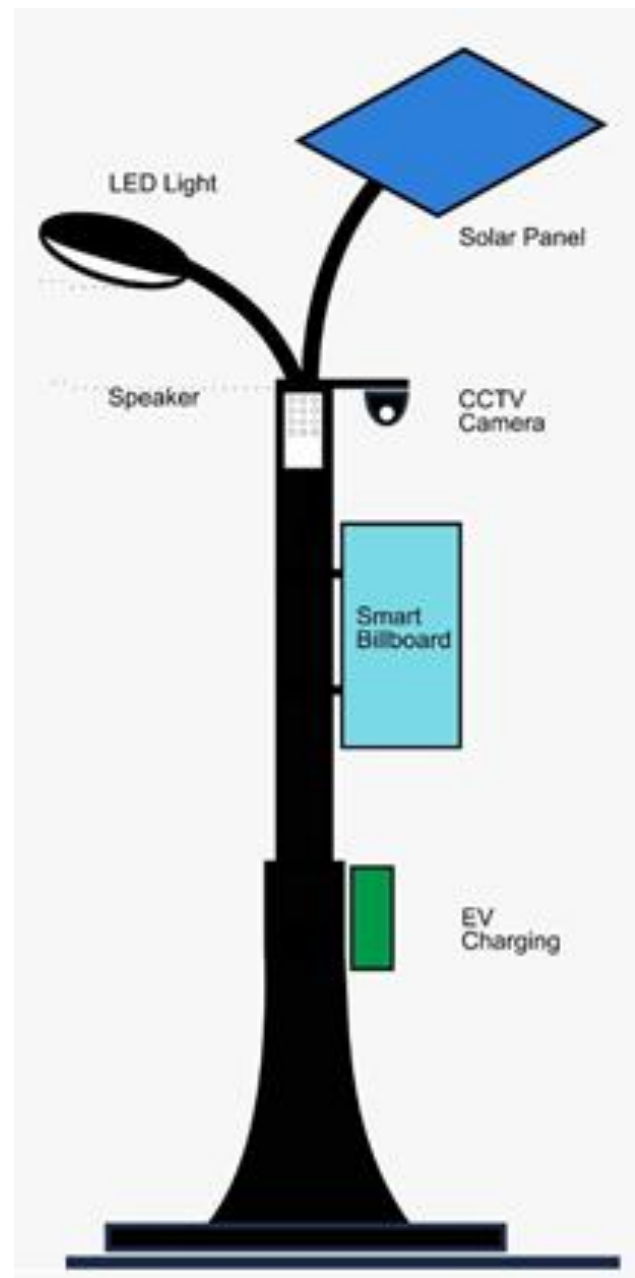


## Smart Solar Trees & Application

*GPTS* have trying to over come up with solution and create Solar Tree with customize capacity & size , with

Add on Applications to put up such as

- *CCTV, Wi-Fi*
- *Weather monitoring system,*
- *LCD Display Bill Board*
- *Cooling Fan, Mobile Charging*
- *Water Sprinkler, Lightening*
  
- *Solar Tree applicable in fields: :*
  - *(Electricity Generation,*
  - *Electricity Storage,*
  - *EV- Charging work Station,*
  - *Submersible Pump*
- *School , College, Universities, Golf courses and Resorts \**  
*Urban and Rural Areas \* Recreational parks, Private*  
*Gardens \* Airports - EV charging work stations*  
*\*Mountainous regions*





# INDIAN RAILWAY - ENVOIRMENT DAY





# GPTS \* MEDIA & CERTIFICATE

## APPROVED INDIAN RAILWAY HALLMARK



## BEST MSME AWARD



## MEDIA & QUALITY CHECK



## MEDIA & NEWS

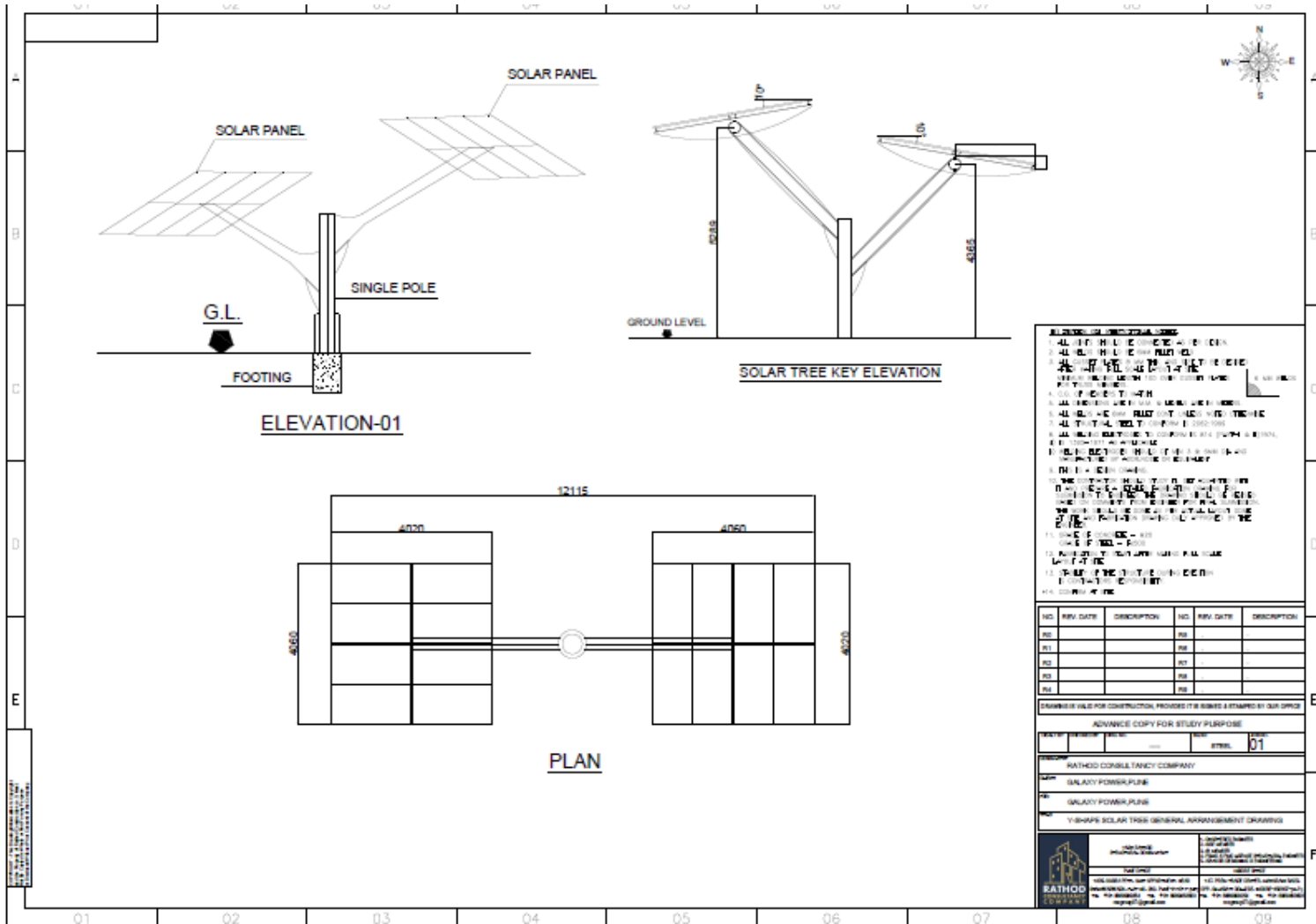


## Certification:

*GPTS Solar Tree is Verified, Tested & Government Approved with Hall mark has been successfully installed and are performing well. Smart City solutions Solar Tree has overcome with challenges installation of Solar Rooftop*

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# DRAWINGS & SOFTWARE



- **Design: & Software :** All the Structure design, Technical details and methodology of the implementation has been arrived by structural analysis (Software AutoCad) To grab attraction on Solar Tree, we have tried to give a natural look further you can find **GPTS** make designs
- **Material we used for manufacturing Solar Tree structure (MS. Iron, Steel, Wood, HDP depending on type of Tree).**



# Manufacturing & Installations

FOOTING



RCC FOUNDATION



IN HOUSE PRODUCTION



FINISHING & PAINTING



ELECTRICAL (BATTERY)





# GPTS - SOLAR TREE - PROJECTS

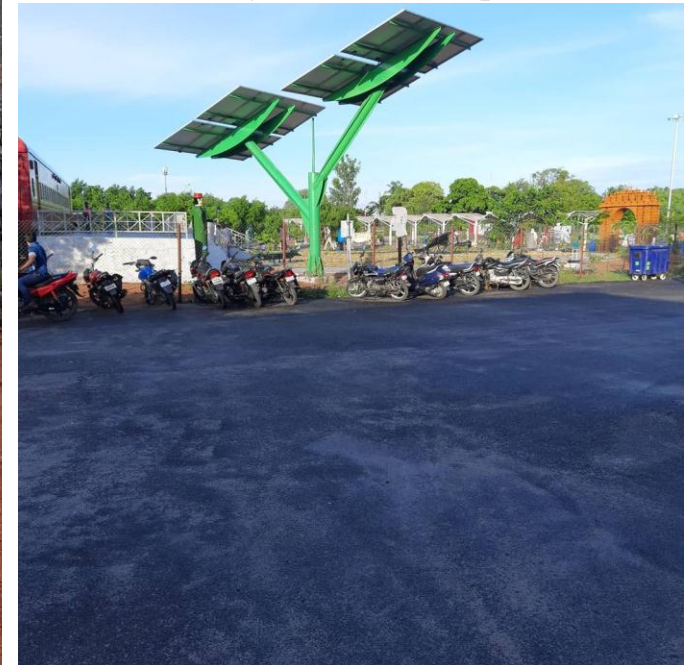
Installation @ Railway Station – Guntkal- Andrapradesh

Tallest Solar Tree By Galaxy Power -  
Capacity of Single - Solar Tree : 5 kwp  
Generation of power per yr : 7300 units  
Reduction of coal : 6.75 MT/yr  
This Solar Tree is equivalent to : 312 Trees  
(312 on Terms of carbon footprint)

**CAPACITY OF SYSTEM : Up to 18kw**

Project :

Actual sample installation images from :  
(Smart Cities – Command Center - Madhya  
Pradesh ,  
Indian Railway –GTL- Andrapradesh )





# GPTS - HIGH MAST SOLAR TREE PROJECT

Installation @ Smart City Command Center –(Satna –MP)

## GPTS HIGH MAST 04

- LOCATION: SATNA  
MADHYAPRADESH
- DEPTATMENT: COMMAND  
CENTRE
- SMART CITY OFFICE
- QTY : 3 NOS
- AT DIFFERENT LOCATION
- TYPE OF SYSTEM : HYBRID (  
WITH SOLAR & GRID)
- COVERS GARDEN LIGHTS FOR  
COMMAND CENTER OFFICE

- ✓ THE TALLEST SOLAR TREE IN  
INDIA
- ✓ WIND PRESSURE 200KMH
- ✓ BRANCHES 4NOS
- ✓ MAIN BRANCHES 1NO
- ✓ SOLAR PANEL MOUNTING  
FRAME FLOEWER SHAPE 4  
NOS



# GPTS - SOLAR TREE PROJECT

## Installation @ Smart City Command Center –(Satna –MP)



### **GPTS MODEL :0Y08**

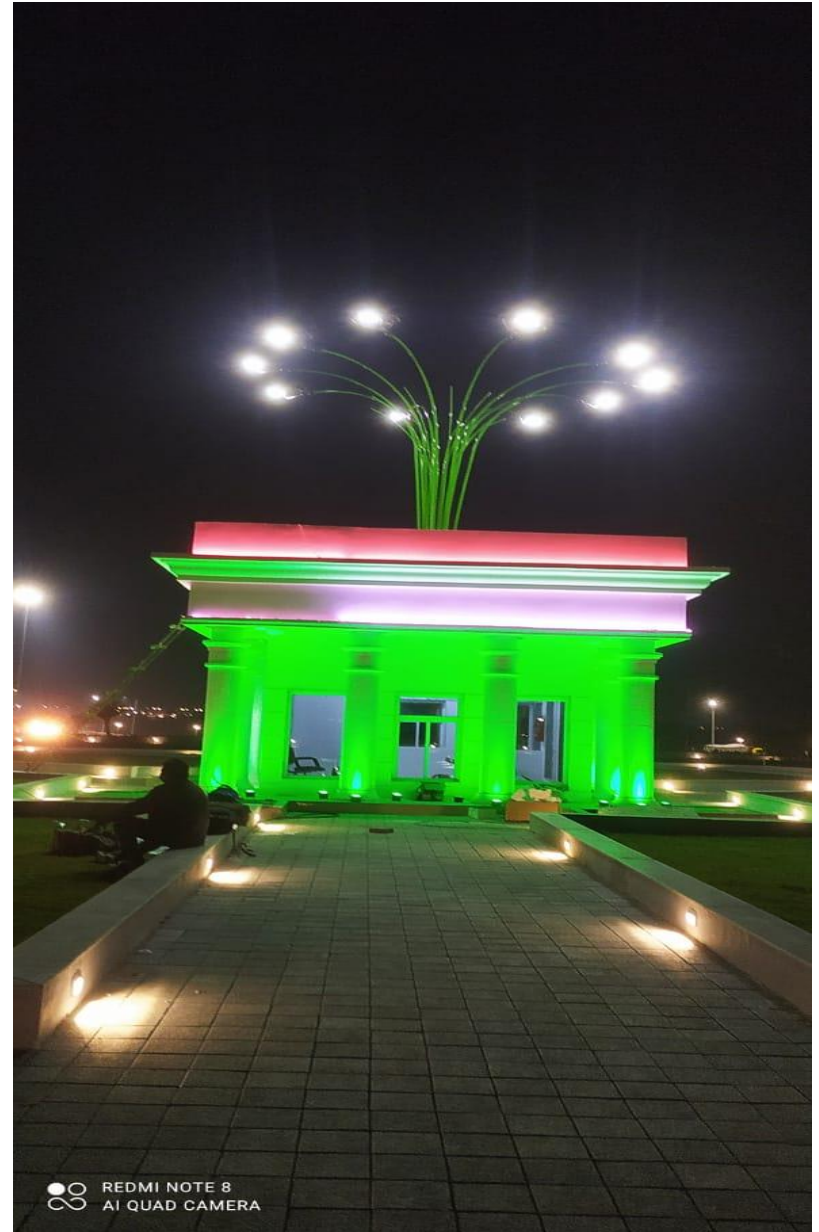
- LOCATION: SATNA MADHYAPRADESH
- DEPTATMENT: COMMAND CENTRE
- SMARTCITY OFFICE
- QTY : 3 NOS
- AT DIFFERERENT LOCATION
- COVERS GARDEN LIGHTS FOR COMMAND CENTER OFFICE ( BLLLARD LIGHTS)

### **TECHNICAL SPECIFICATION:**

- SOLAR TREE CAPACITY :5500 watts
- PANEL:325WATTS - 16 NOS
- LED :15 WATTS
- BATTERY : 200 Ah
- BACKUP : 4 hr
- TYPE OF SYSTEM : HYBRID ( WITH SOLAR & GRID)



# GPTS SOLAR PROJECT NAGAPUR SAMRUDHI EXPRESS HIGHWAY



# GPTS SOLAR PROJECT – NAGPUR

## SAMRUDHI MAHAMARG EXPRESS HIGHWAY

**GPTS PALM 010**

**GPTS PALM 010**



**WITH Inbuild Led Lights –Lithium Battery bank – Auto Dusk to Dawn**



# Installation @ Smart City Command Center –(Satna –MP)



## **GPTS MODEL :0Z04**

LOCATION: SATNA  
MADHYAPRADESH  
DEPTATMENT: COMMAND CENTRE  
SMARTCITY OFFICE  
QTY : 3 NOS  
AT DIFFERERENT LOCATION

## **TECHNICAL SPECIFICATION:**

SOLAR TREE CAPACITY :5500 watts  
PANEL:325WATTS - 16 NOS  
LED :15 WATTS  
BATTERY : 200 Ah  
BACKUP : 4 hr  
TYPE OF SYSTEM : HYBRID ( WITH  
SOLAR & GRID)  
COVERS THE COMMAND CENTER  
OFFICE

# GPTS- Battery Bank SOLAR TREE - PROJECT

Installation @ –(Solhapur Railway DRM OFFICE - Maharashtra)



## **GPTS MODEL :0Y02**

LOCATION: SOLAPUR

MAHARASHTRA

DEPARTMENT: INDIAN RAILWAY

CAPACITY INSTALLED : 1000WP

QTY : 5 NOS

AT DIFFERENT LOCATION

## **TECHNICAL SPECIFICATION:**

- SOLAR TREE CAPACITY :200 watts
- PANEL:50WATTS
- LED :15 WATTS
- BATTERY : 18 AH
- BACK UP LOAD : 12 hr AUTO ON OFF SYSTEM
- AREA COVERS FOR DRM OFFICE



# **GPTS -BATTERY BANK - SOLAR TREE - PROJECT**

Installation @ -(AHEMEDNAGAR Railway DRM OFFICE - Maharashtra)

**GPTS MODEL :0Y02**

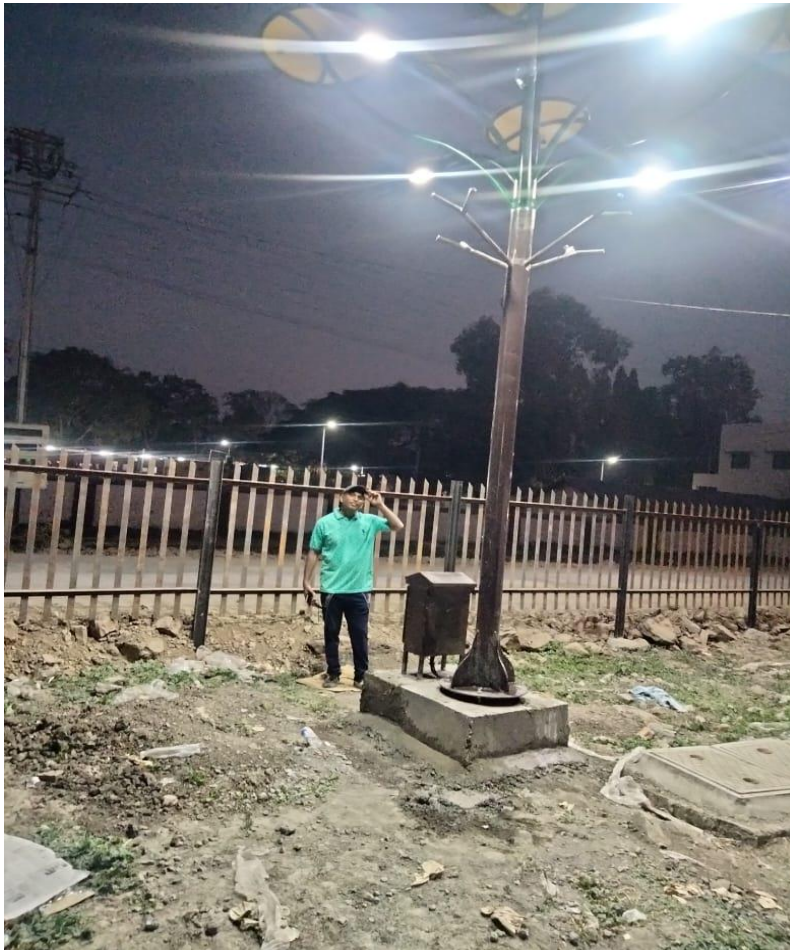
LOCATION: AHMEDNAGAR MAHARASHTRA

DEPARTMENT: INDIAN RAILWAY

CAPACITY INSTALLED : 0.2KW

LED LIGHTS : 60WATT

LITHIUM BATTERY



# GPTS HYBRID SOLAR TREE PROJECT

Installation @ – (MIDC – INDUSTRIAL AREA - CHIPLUN Maharashtra)

## GPTS MODEL : LEAF

LOCATION: AHMEDNAGAR MAHARASHTRA

DEPARTMENT: INDIAN RAILWAY

CAPACITY INSTALLED : 0.2KW

LED LIGHTS : 60WATT

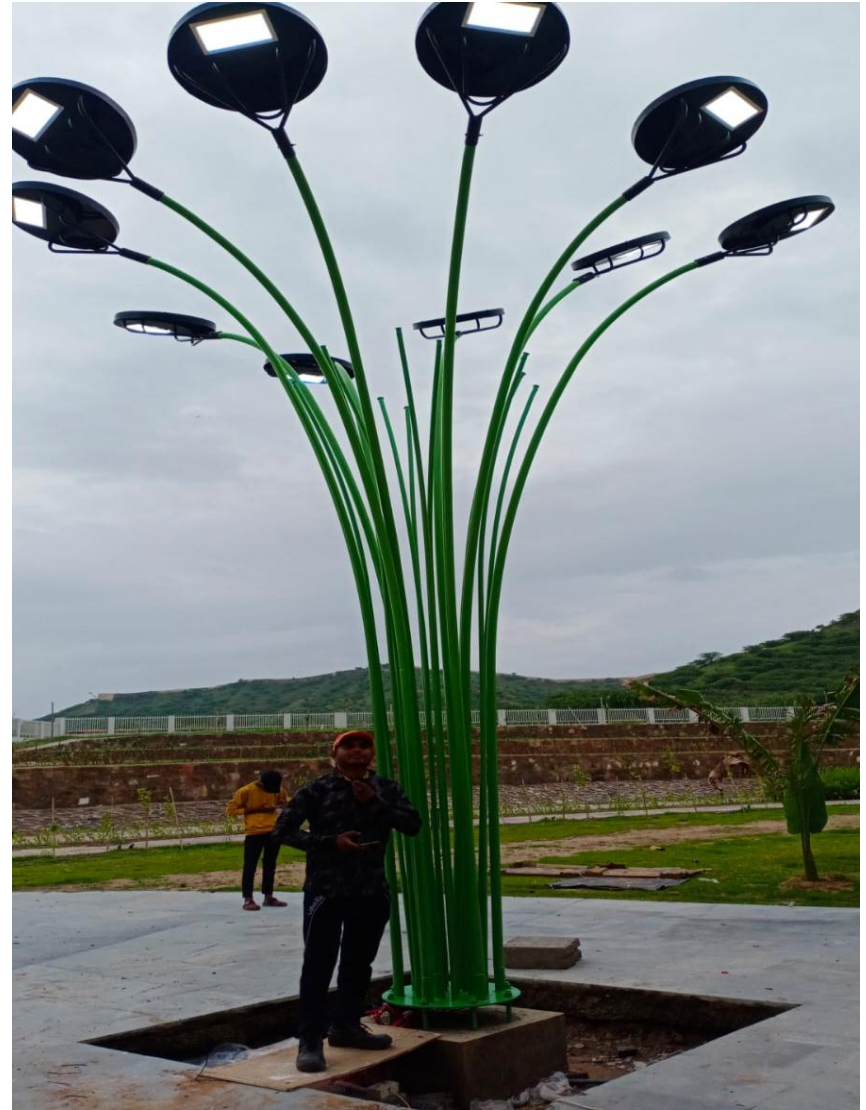
LITHIUM BATTERY





# GPTS PALM HYBRID SOLAR TREE

Installation @ – ( REGIONAL SCIENCE MUSEUM –BHUJ- GUJARAT)



# GPTS "WIND + SOLAR TREE"



## Features :

*It is uniquely positioned because of its delivery in small wind solar hybrid solutions.*

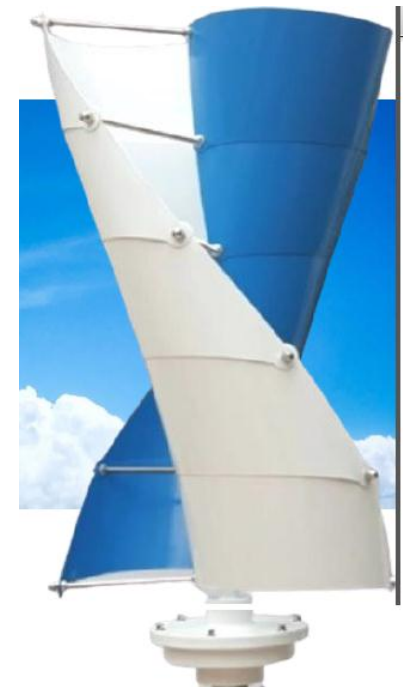
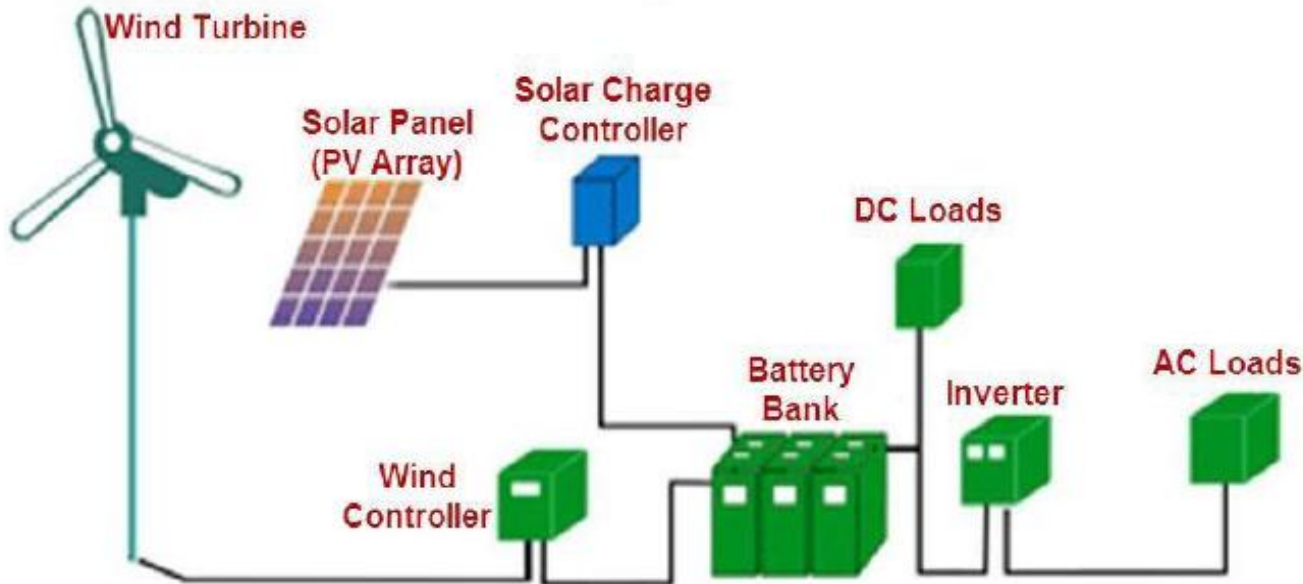
*•Wind and Solar complements each other. In monsoon, when the sky is dark due to cloud cover, winds are blowing wild during those time generating more electricity and vice versa.*

*•Differentiator*

*• easy to install, modular. It doesn't require heighted towers.*



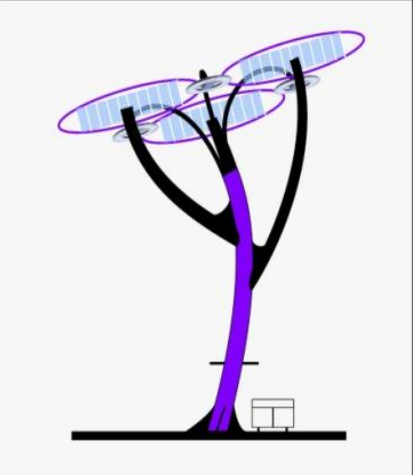
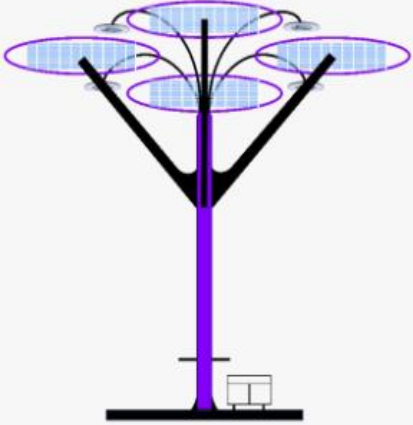
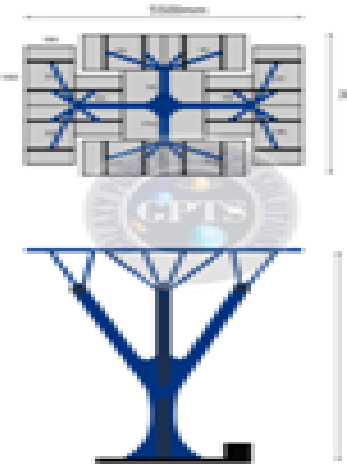
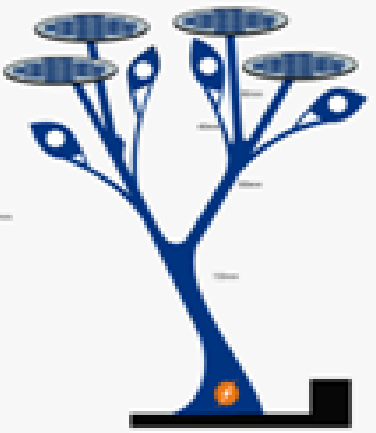
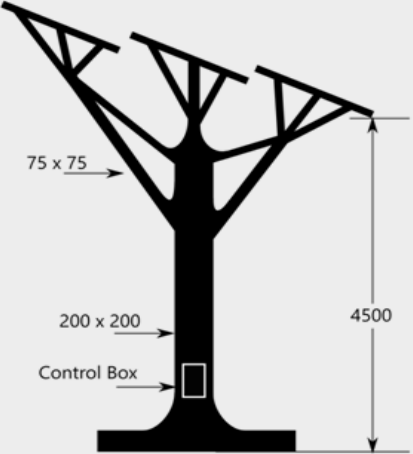

*•Vertical turbines start generating at 1.8 to 2 m/s hence capture local wind easily*

*•A good combination of wind and solar*





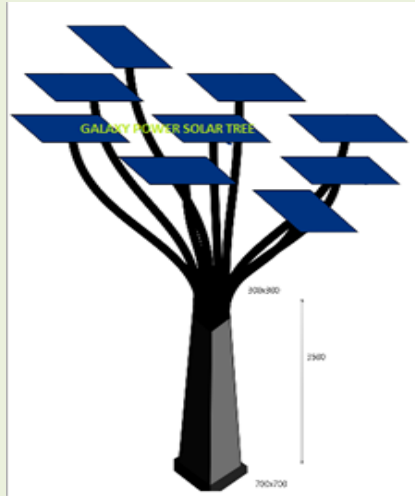
# GPTS -Y Series

<p><b>GPTS -0Y01</b> (1.0 to 2.5 Kw)</p>	<p><b>GPTS -0Y02</b> (0.250 to 1.0 Kw)</p>	<p><b>GPTS -0Y03</b> (0.250 to 1.0Kw)</p>	<p><b>GPTS -0Y04</b> (0.5 to 1.5Kw)</p>
			
<p><b>GPTS -0Y05</b> (2.0 to 5.0Kw)</p>	<p><b>GPTS -RY06</b> (0.250 to 1.0Kw)</p>	<p><b>GPTS -0Y07</b> (2.5kw to 3.5Kw)</p>	<p><b>GPTS -0Y08</b> (2.0 to 7.5Kw)</p>
			

# GPTS

## Solar Palam Trees, High Mast Solar Trees

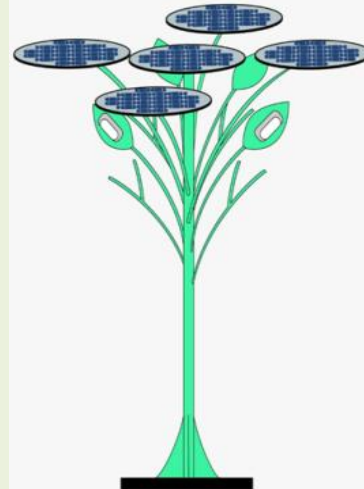
**GPTS –PALM-01**  
(2.0 to 3.5 Kw)



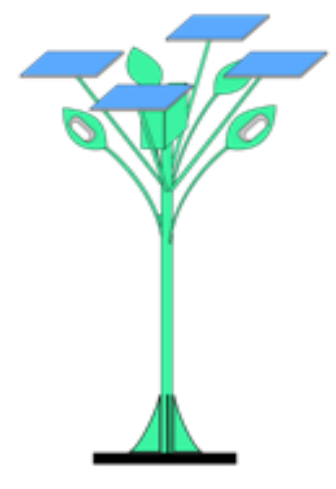
**GPTS –PALM-02**  
(2.0 to Kw)



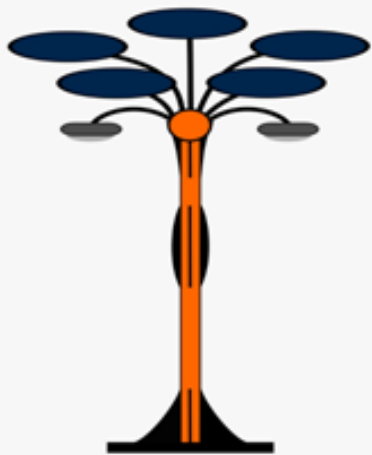
**GPTS –PALM-03**  
(0.800 to 1.0Kw)



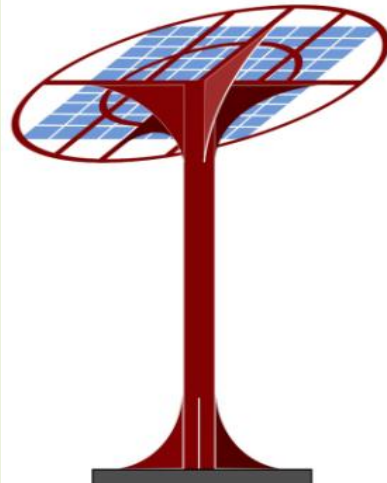
**GPTS –PALM-04**  
(0.800 to 1.0Kw)



**GPTS –High MSK 03**  
(350watts to 500watts)



**GPTS –High MSK 01**  
(1.0kw to 2Kw)



**GPTS –High MSK 02**  
(1.0kw to 2 Kw)



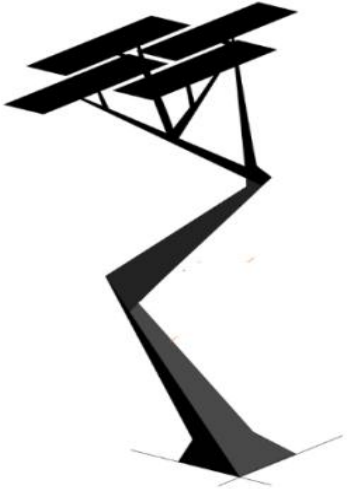
**GPTS – High MSK 04**  
(2.kw to 7.5Kw)



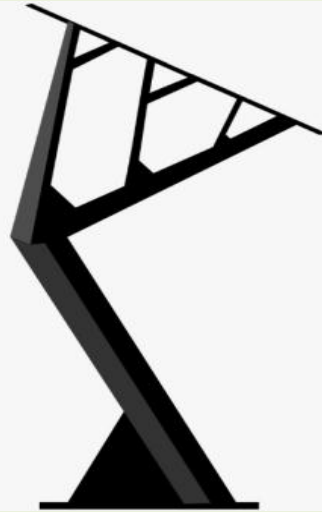


# GPTS – Z Series

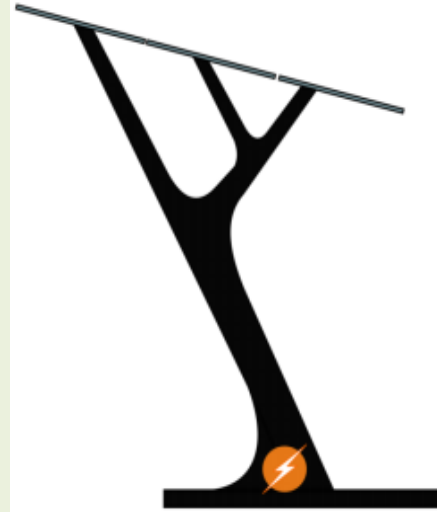
*GPTS -OZ01*  
( 1.0 to 1.5Kw)



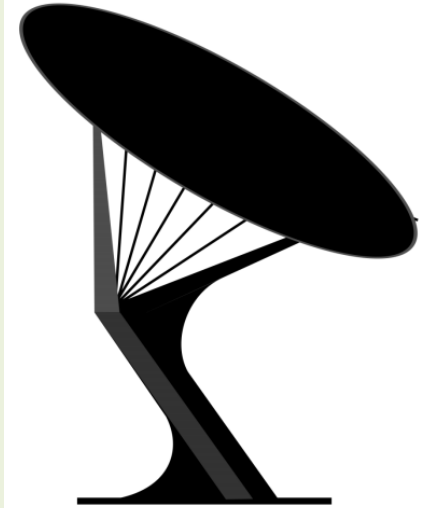
*GPTS -OZ02*  
( 1.0 to 3.5Kw)



*GPTS -OZ03*  
( 1.0 to 3.5 Kw)



*GPTS -OVAL- 01*  
( 1.0 to 2.5 Kw)



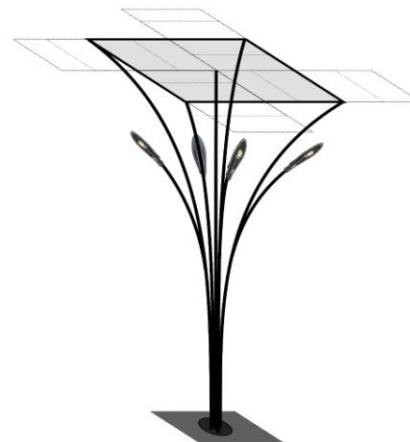
*GPTS – ZQ01* (1.0 to 1.5 Kw)



*GPTS –PEACOCK-01*  
( 1.0 to 2.0 Kw)



*GPTS -OZS3*  
(1.0 to 2.0 Kw)

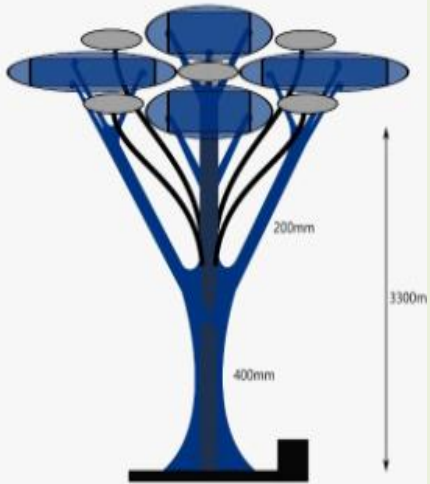


*GPTS -OZ04*  
( 2.0 to 7.2Kw)



# GPTS – Leaf & Sunflr

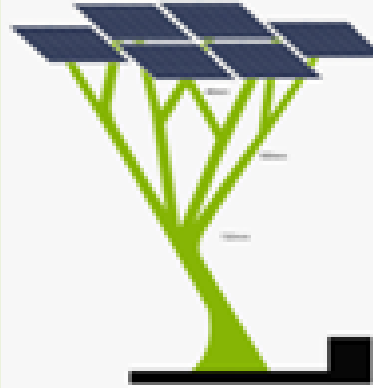
*GPTS –FLR-01*  
(1.0 to 2.0 Kw)



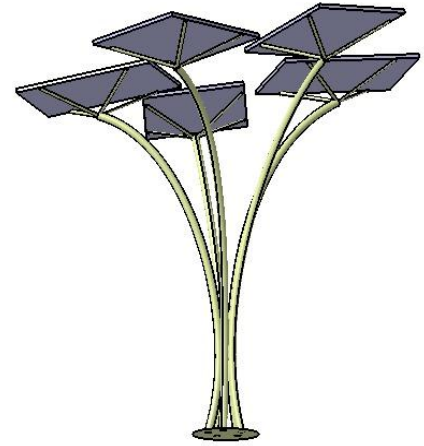
*GPTS –FLR -02*  
(1.0 to 1.8 kw)



*GPTS –FLR -03*  
(1.0 to 2 Kw)



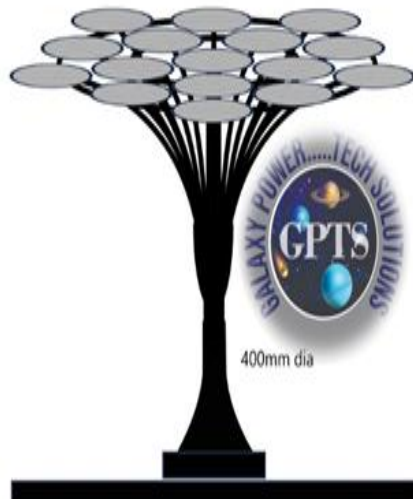
*GPTS –FLR-04*  
(1.0 to 1.8 Kw)



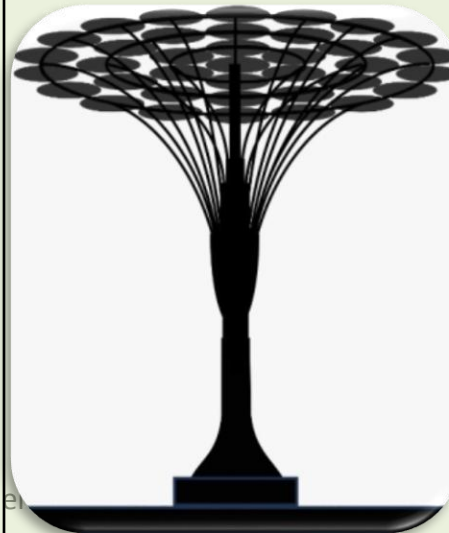
*GPTS –SUNFLR LEAF*  
(1.8 to 3 Kw)



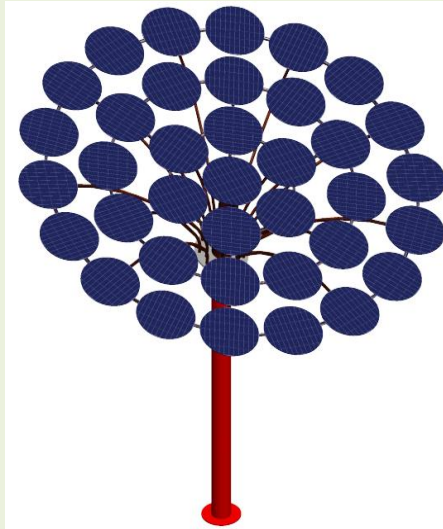
*GPTS –SUNFLR 02*  
(1.8 to 3.5 Kw)



*GPTS –SUNFLR 03*  
(2.0 to 5.5 Kw)



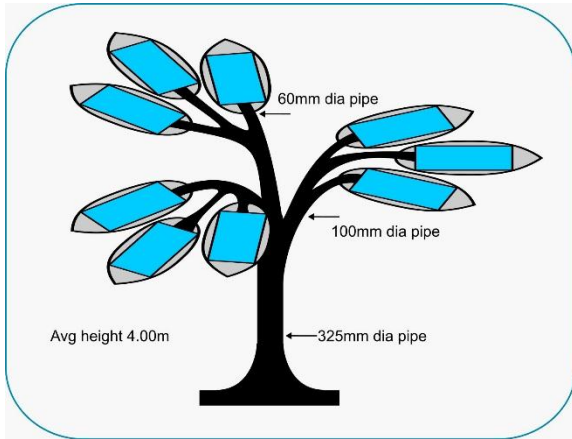
*GPTS –SUNFLR 04*  
(2.5 to 3.5 Kw)



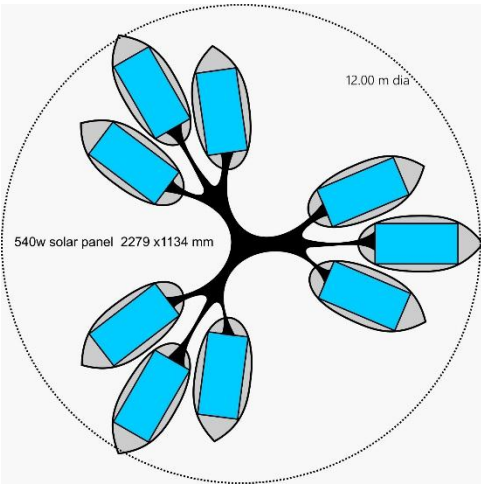


# GPTS – LEAF SOLAR TREE'S

GPTS LEF 0901



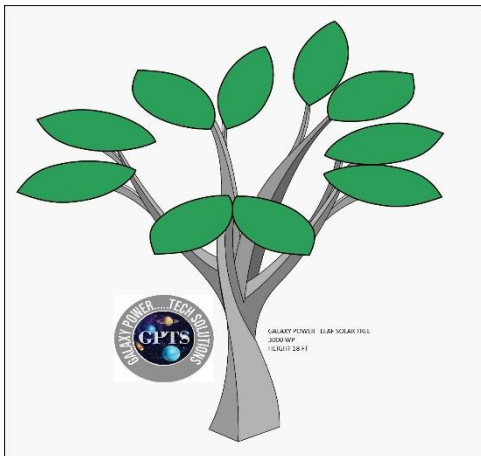
GPTS LEF 09 02



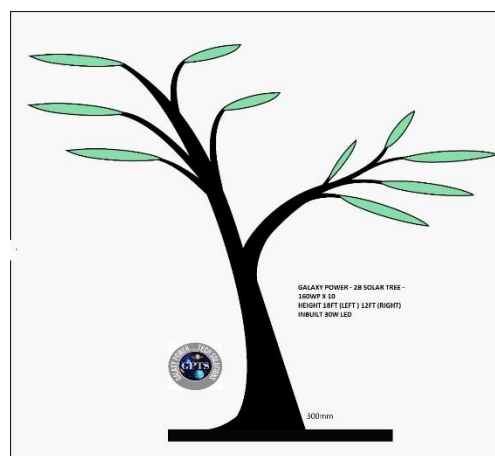
GPTS BATTERY BANK



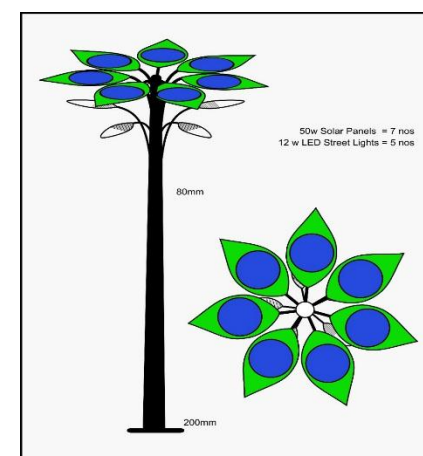
GPTS LEAF10



GPTS LEAF 010L1



GPTS SUNFLR 07

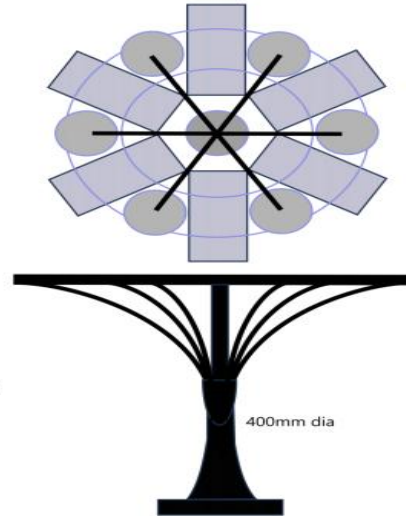


# GPTS – Artifact & Garden

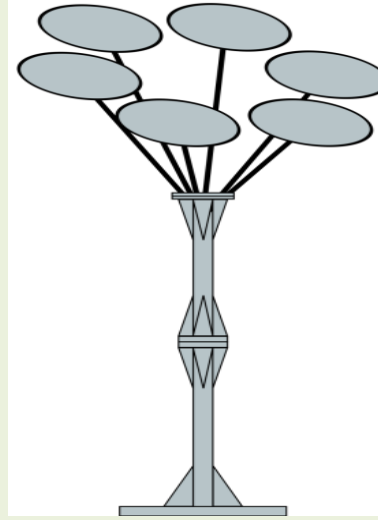
**GPTS –UMBRELA 01**  
(2.0 to 6.5 Kw)



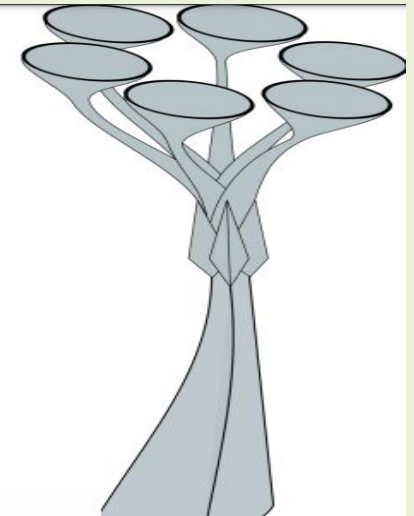
**GPTS –UMBRELA 02**  
(2.0 To 6.5 Kw)



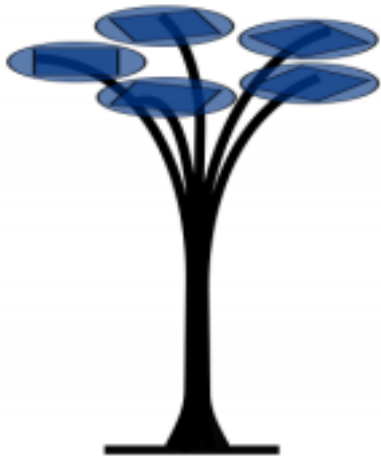
**GPTS –GRDN 01**  
(200 watts)



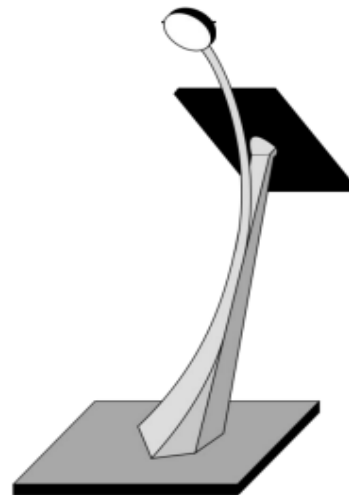
**GPTS –GRDN 02**  
(200 wats)



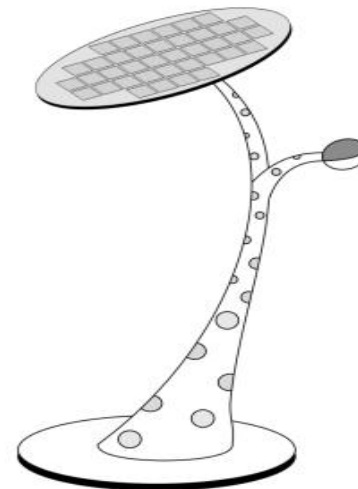
**GPTS –GRDN 03**  
(200 watts to 1.0 Kw)



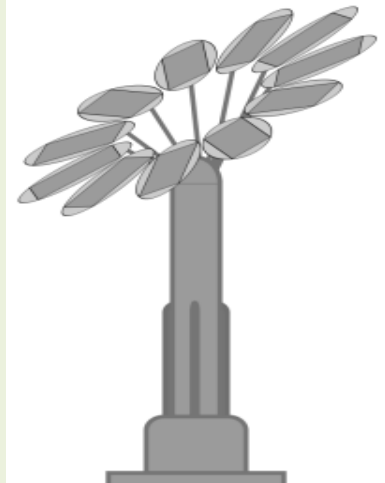
**GPTS –PRK 01**  
(150 –300watts )



**GPTS –PRK 02**  
(150 –300watts )



**GPTS –SUNFLR 05**  
(1.8 to 2.5 Kw)





# GPTS - Smart Decorative Solar Street Lights & Mobile Charging

*GPTS – Street Lights  
Garden -01*



*GPTS – Street Light  
Garden -02*



*GPTS – Solar Garden Light*



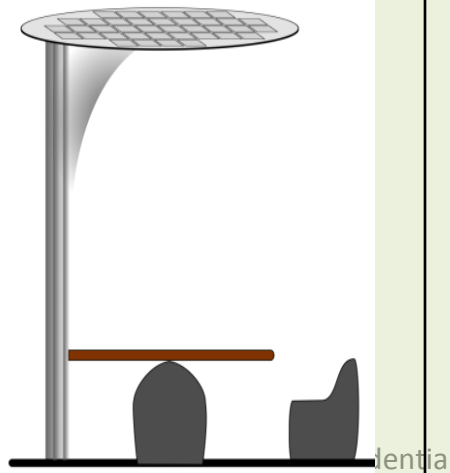
*GPTS – Street Light  
Garden -03*



*GPTS – Solar Mobile charging  
FLX*



*GPTS –Solar Mobile  
Charging Oval*



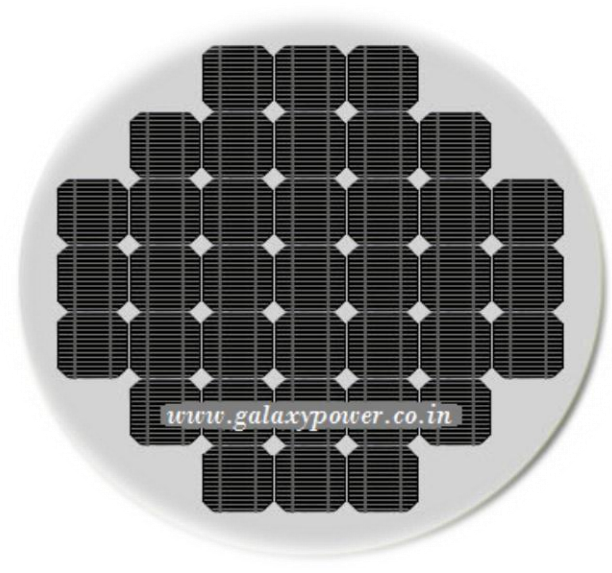
*GPTS – Solar Integrated  
Street Light*



*GPTS – Solar Mobile  
Charging 02*



# GPTS Solar Leaf Panels







# GPTS Solar EV Charger



DC Charger



AC001 EV CHARGER 3.3KW x 3 As per Bharat EV Specification  
With OCPP1.6J With three 16A Socket IEC 60309  
With 4.3-inch Touch screen with LAN  
Certifications: CE certified Authorization: RFID  
Input Voltage: 3-phase 400V $\pm$ 10%  
Input Frequency: 50Hz / 60Hz



# GPTS SOLAR HIGHMAST LIGHT POLE

*Solar LED High Mast Light System with*

*Luminary - 60W LED light luminary with IP 65.*

*Solar Module -600Wp IEC approved polycrystalline with high efficiency.*

*High Mast Pole: 6-9 meter height high mast pole with galvanize.*

*Charge Controller- Solar charge controller with auto ON/OFF 12V.*

*Battery – 12V Solar grade low maintenance tubular plate, long life.*

*Battery Box- Water proof.*

*Cables - ISI mark suitable size.*





# GPTS SOLAR WATER PUMPING



- 1.0 KW : 1 HP
- 2.0 KW : 2 HP
- 3.0 KW : 3 HP
- 5.0 KW : 5 HP
- 8.1 KW : 7.5 HP
- 10.0 KW : 10 HP

**1 to 10 HP MPPT – Inbuilt Display – Inbuilt Phase – 3 phase Output Voltage AC – 415 V Input Voltage DC – 800 V Max Voltage DC vmp – 580 V Output Amp – 1.7 A per HP GSM GPRS- If required Box- Powder coated. Protection features : • Dry Run Protection • Over Voltage, low voltage, phase loss • Over Load, short circuit, open circuit • Reverse Polarity Protection**

# SOLAR WATER HEATER

## RESIDENTIAL , COMMERCIAL , INDUSTRIAL



ETC  
Evacuated Tube  
Collector

A Domestic Solar Water Heating system of capacity 100 ltrs per day can save Rs 12,000 and 2000 KWH of electricity every year.



### FEATURES & BENEFITS :-

Cost Effective, Efficient and low maintenance.

Recovery on Investment between 2 to 3 Years.

Water stored or passed through copper has therapeutic benefits.

Excellent after sales services

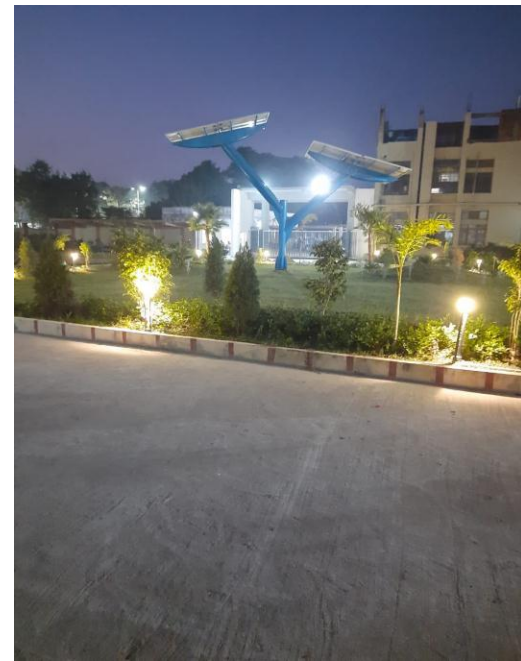


FPC  
Flat Plate Collector





Solar Trees



THANK YOU

PLANT MORE TREE  
SAVE MOTHER NATURE

**GALAXY POWER**

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