



Krishi Mitra

Pump Series



- PUMP CONTROLLERS
- SMART REMOTE MONITORING
- SUBMERSIBLE PUMPS

# CYGNI SOLAR WATER PUMP SOLUTIONS

## PROVIDING ENERGY EFFICIENT SOLUTIONS

### Sales & Service Support Number - 1800 103 0314



Cygni Energy Private Limited



# CYGNU SOLAR WATER PUMP SOLUTIONS



Installable at any location, no matter the area, terrain, power availability and accessibility



Efficient in water output and energy utility



Environmentally viable solution for ever-increasing power demands

## COMPONENTS



Solar Panel

Pump Controller



Pump and Motor set

Pump accessories



# FEATURES OF PUMP & MOTOR

## Wide series of high efficiency pump sets from 1HP to 10HP

- ❑ Extremely efficient BLDC Motors
- ❑ Stainless Steel Rotor
- ❑ Rare earth magnets which can withstand temperature up to 160 C
- ❑ High-quality Ceramic carbon thrust bearing
- ❑ Leak-proof motor filled with water for frictionless operation
- ❑ Laser welded impellers
- ❑ Strainer for sandy water parts
- ❑ 100% Stainless steel AISI304

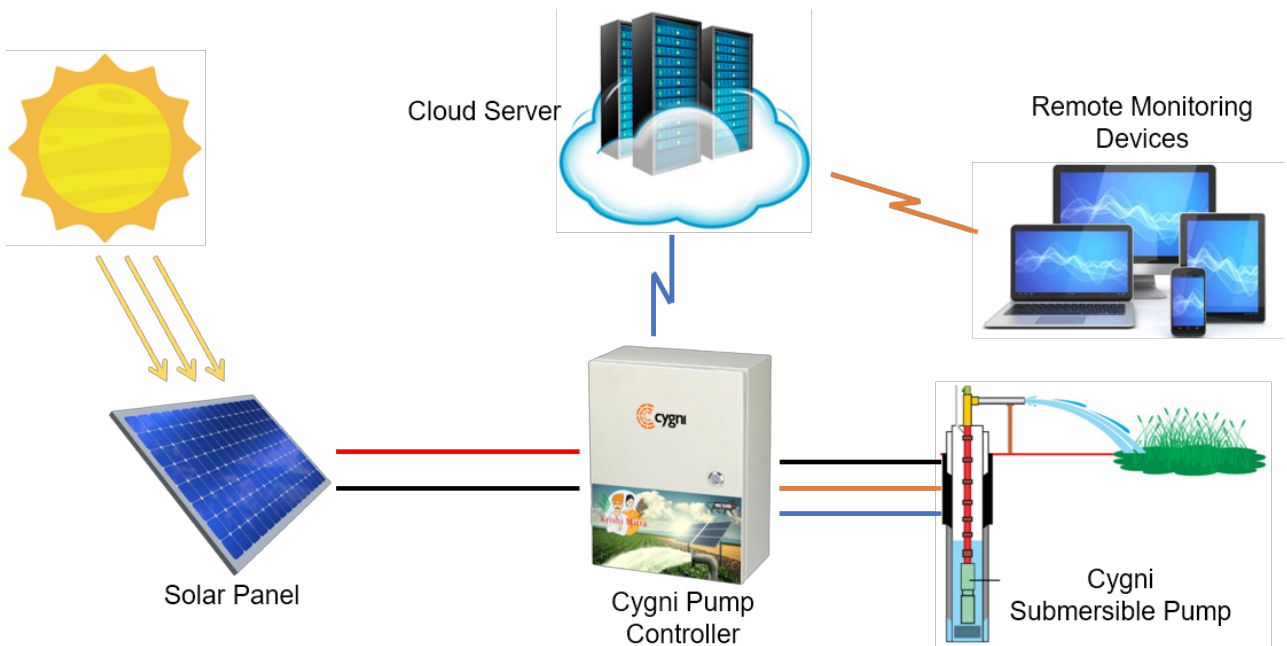


# FEATURES OF CONTROLLER

- ❑ Built-in MPPT for maximum output
- ❑ Sensor less Dry running protection and automatic restart
- ❑ Thermal overload shut down to avoid damage to the Motor Or the Controller
- ❑ Tested as per MNRE and BIS requirement
- ❑ Remote monitoring
- ❑ Remote start and stop
- ❑ Short circuit protected
- ❑ IP54 and IP65 certified enclosures



# SMART REMOTE MONITORING



Uses GSM/GPRS,  
Hardware and Machine  
Learning IoT

Measures periodic data  
and analyses

CLOUD BASED  
REMOTE  
MONITORING

Displays system  
performance in  
browser or mobile app

Updates in hosted  
database servers

**SRM can detect the following faulty conditions:**

- Controller overload
- Controller short circuit
- Controller over temperature
- Decreased pumping
- Less operational hours/ day
- System not working
- Frequent pump jamming



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IITM  
Incubation  
Cell

