

Project Summary - 4

C.R.I. 10 HP Solar Pumping System with Online Remote Monitoring

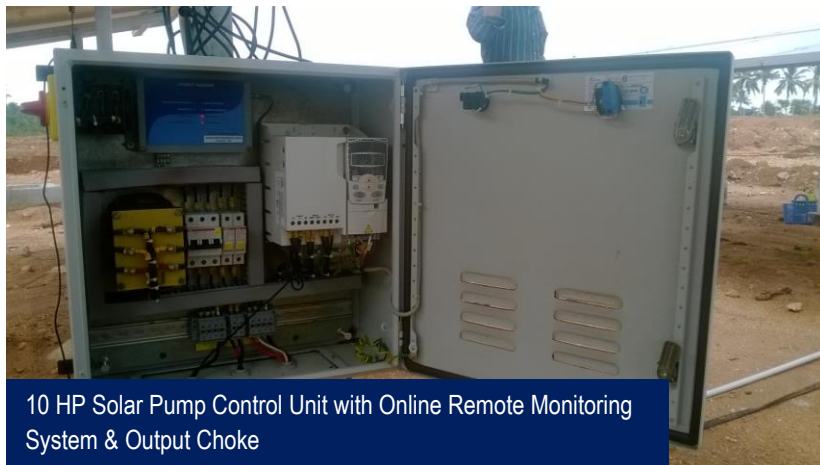


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Location

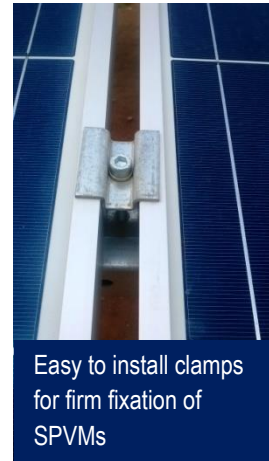
Geo location: Perunthozhuvu (Avinashipalayam), Tirupur, Tamil Nadu
Latitude: 10.9697 ° N
Longitude: 77.2541 ° E



10 HP Solar Pump Control Unit with Online Remote Monitoring System & Output Choke



Array Junction Box
for 3 Strings of
SPVMs



Easy to install clamps
for firm fixation of
SPVMs

System Components

- 13,680 Wp (240Wp x 57 Nos. - 19 Nos. x 3 Strings) Multi-Crystalline
- 10HP ABB Solar Pump Control Unit
- Fixed Tilt Ground Mounted Module Mounting Structures, Hot Dipped Galvanised 80 Microns , North to South (Solar PV module Top to Bottom)
- 6" Submersible - SR67 -10HP 33 Stage Pumpset 3 Phase, 380 V, 50 Hz
- Area occupied: 93 Sq. meters of shadow free area
- Tilt Degree: 11° as per the Geo location of the installation

Application

Green farming activity for plantations like Malaivembu, Nelli, Pappaya with Drip Irrigation



- 4,680 LPH / 25,740 LPD* at 309.45 m* Total Dynamic Head
- Per year Running Cost by EB Grid Supply :
Rs. 90,750 / * Payback period 11Years*
- Per year Running Cost by Diesel Genset / Diesel Pumpset:
Rs. 2,97,000 / * Payback period 1-2 Years*

September 2014



Online Remote Monitoring System - Online & Historical viewing of critical parameters with Status indicators in any Laptop, Smartphone's standard web browsers & export to MS Excel for generating reports.



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