

## Project Summary

### Installation of 5 HP Auto tracking Solar Pumping System – Single Axis



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#### Location

Geo location: Coimbatore, TamilNadu  
Geo position: 11.1126 N, 77.02905 E



**Single Axis  
Auto  
tracking  
system**

#### System Components

- 240Wp x 20 Nos. \*(4800 Wp) Multi-Crystalline
- 30Wp x 1 = 30 Watts[ Multi-Crystalline]
- 5HP ABB Solar Pump Control Unit
- Single Axis Auto Tracking Module Mounting Structures, East to West
- CRI 4R-8 5HP / 23 STAGE Pumpset 3 Phase, 380 V, 50 Hz
- Solar Tracker
- Actuator
- 12Volt Battery to run Actuator
- Area occupied: 70 Sq. meters of shadow free area







## Solar Tracker

- The Solar Tracker executes the sun tracking algorithm and coordinates the movement of the positioning system.

## Actuator

- The actuator system moves the panel to face the sun at the optimum angles.

## Solar Tracking System

Solar tracking is an obvious way to improve the efficiency of solar power plants. This system helps the solar module to automatically follow and maintain the optimum angle in order to make the most of sun beams



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