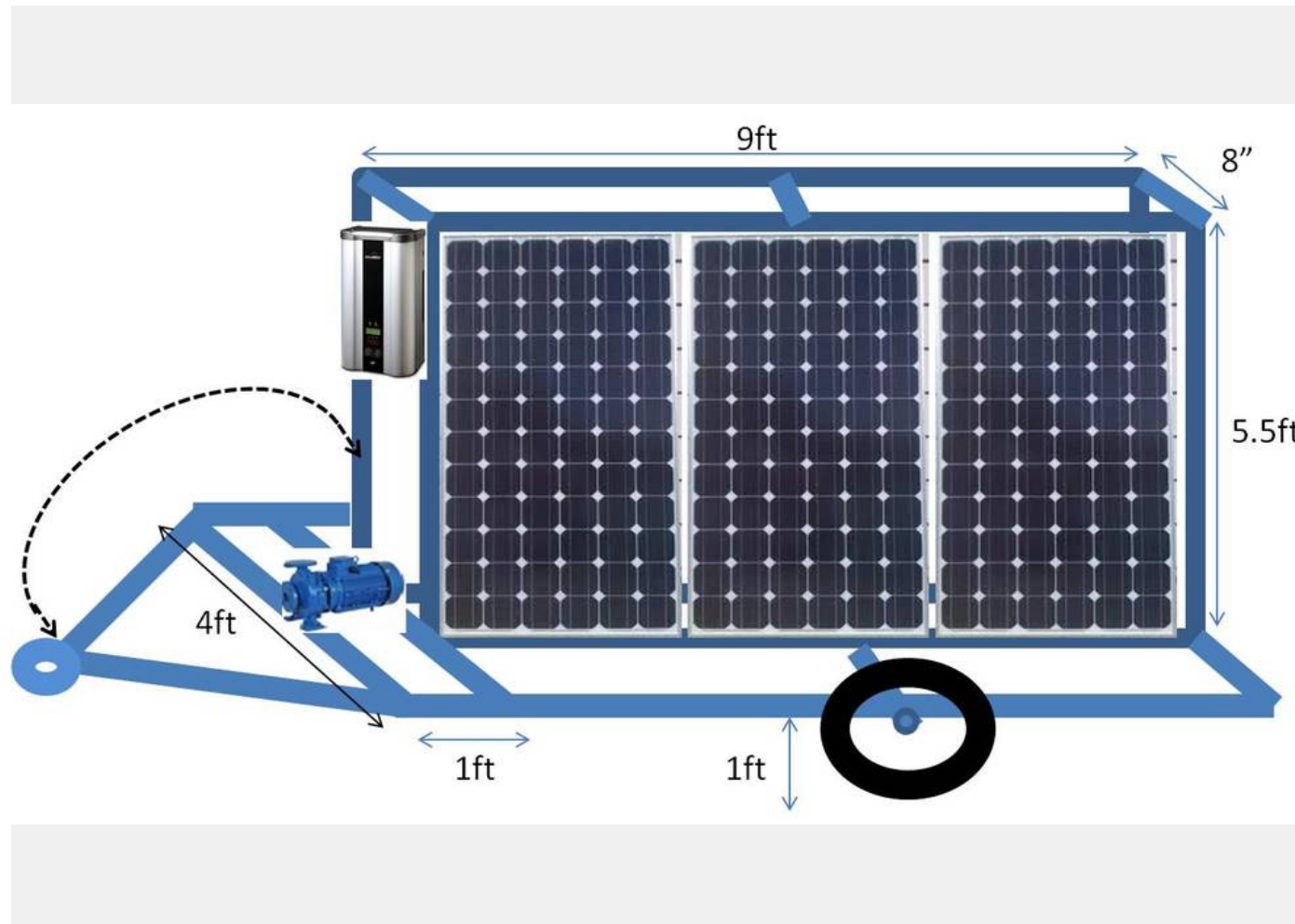


## 1/2 Solar PV Powered Portable DC Water Pumping System

An efficient, compact and portable solution for water pumping problem for small farmers of Bihar.



### Solution

Proposed pumping system utilizes multi-crystalline silicon solar modules and BLDC motor-pump set. The support structure of modules is foldable and mounted on a cart easy to carry the pump to farm and back to home on daily basis.

Power conditioning unit (PCU) has an inbuilt MPPT tracker that extracts maximum available power from solar array. Pumping system is also compatible with conventional single phase AC supply from grid (if available) that offers better reliability. PCU also has 12V battery charging point to charge a small battery to operate DC fans and LED lights during night.

The schematic of the proposed pumping system has been attached.

Status: 18.06.2018

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Creative's profile



thegreenmantra