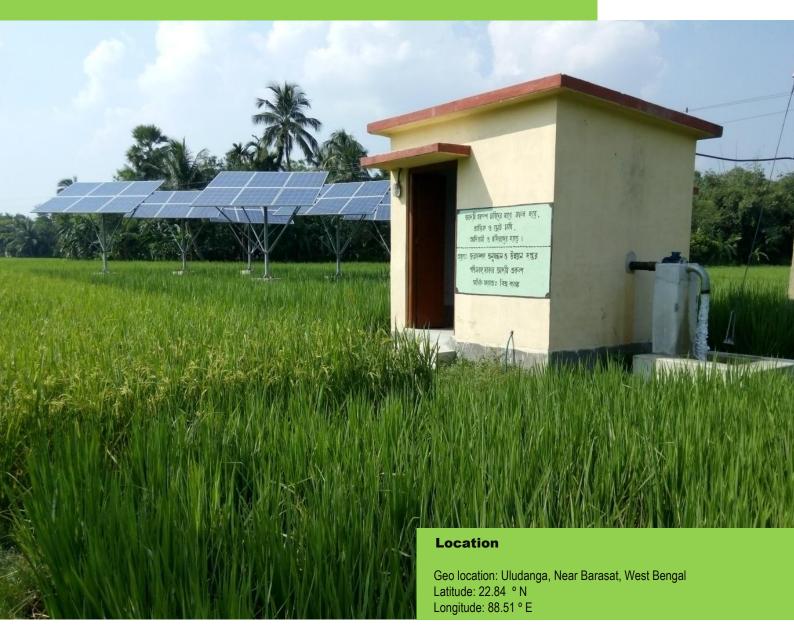
# Case Study - 7

C.R.I. 5 HP Solar Pumping System









## **System Components**

■ 190Wp x 36 Nos. (6840 Wp) Multi-Crystalline Solar PV Modules ■ 5HP ABB Solar Pump Control Unit

■ 1-Axis Manually Tracked Ground Mounted Module Mounting Structures, North to South (Solar PV module Top to Bottom) ■ 5 HP 6" Submersible Pumpset 3 Phase, 380 V, 50 Hz ■ Area occupied: 31 Sq. meters of shadow free area ■ Tilt Degree: 22° as per the Geo location of the installation









## **Application**

Paddy & Jute

### Results

- 41,000 LPH / 2,25,500 LPD\* at 50 m\* Total Dynamic Head
- Per year Running Cost by EB Grid Supply: Rs. 45,375/\* Payback period 14.3 Years\*
- Per year Running Cost by Diesel Genset / Diesel Pumpset: Rs.1,48,500/\* Payback period 4-5 Years\*
- Investment for a 5 HP Solar Pumping System Rs.6,50,000/=\* [Excluding Pumpset]
- \* Conditions apply

September 2014

### **Impact**

This project has been initiated by West Bengal Micro Irrigation Department and funded by the World Bank. This prestigious order was taken by M/s. Balaji Udyog, Kolkata through a tender, after C.R.I.'s successful demonstration of 5 HP Solar Pump in the presence of group of farmers, EB officials, World Bank Officials, Secretary (IAS officer).



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