

Project Summary - 2

Installation of a C.R.I. 2 HP Solar Pumping System



C.R.I. PUMPS
Pumping trust. Worldwide.



Customer Name: Mr. R. Krishnaswamy

Location

Bhavani Sagar, Tamil Nadu
Latitude: 11.480 Longitude: 77.125



System Components

- 1920 Wp (60 Wp x 32) Solar PV Array
- 2 HP ABB Solar Pump Control Unit
- Fixed Tilt Ground Mounted Module Mounting Structures
- C.R.I. ACM 21 - Centrifugal Monoblock Pumpset 3 Phase, 380 V, 50 Hz
- Area occupied: 12 Sq. meters

Results

- 5.5 LPS* / 19,800 LPH* / 1,08,900 LPD* at 10 m* Total Dynamic Head
- Per year Running Cost by EB Grid Supply : Rs.20,790/=* Payback period 5-7 Years*
- Per year Running Cost by Diesel Genset / Diesel Pumpset: Rs.74,944/=* Payback period 2-3 Years*
- Investment for a 2 HP Solar Pumping System: Rs.1,98,000/=*

* Conditions apply





Mr. Krishnasamy with his 13 years old ACM 21 - 1 Phase 230 V, 50 Hz, Pumpset - Only once rewound in 2005 at our factory. He had bought directly from our factory for Rs.4,500/= in the year 2001.



C.R.I. ACM 21 - 1 Phase, 230 V, Hz - Centrifugal Monoblock Pumpset, 2840 rpm - 13 Years old, still running without any trouble.

Reasons for switching to Solar Pump

- Not allowed to use 1 Phase residential connection for Agriculture
- 3 Phase Supply not available & difficult to get from Electricity Board
- Under compulsion to use Diesel Pumpset at a yearly diesel cost of Rs.43,200/=

Impact & outcome of the demo

- 120 persons had visited the site & seen the system without any publicity.
- Agriculture Engineering Department (AED) officials had visited & seen the system.
- The order was taken by by our dealer Mr. Subburaj of M/s. Siva Agencies, Sirumugai.
- 3 prospective enquiries has been generated out of this installation



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