

## **Project Capacity Report on 4HP Solar submersible pump by Solar Universe India**



**Location: Village RudiaBhopalgarh Jodhpur Rajsthan India**

65, Rani Jhansi Road, Motia Khan, New Delhi, 110055

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**Type of Application: Pumping from borewell to farm pond & from farm pond to drip lines, fields**



**Type of pump: 4Hp 3phase Borewell Submersible Pump**

**Total Area in acres: 10 acres**

**Bore Depth: 4hp erected at 450ft**

**Distance between Borewell and Solar Panel: 75m**

**Distance between Borewell and storage tank: 10m**

**Peak Discharge: 82LPM & 50Lpm (Low discharge models chosen due to low bore yield)**

**Average Start Time: 7.55AM**

**Average Stop Time: 6.20PM**

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**Type of Solar Panels: 4000Watts Poly-Crystalline- Class A Panels (72 cells / 24V / 250Wp)**

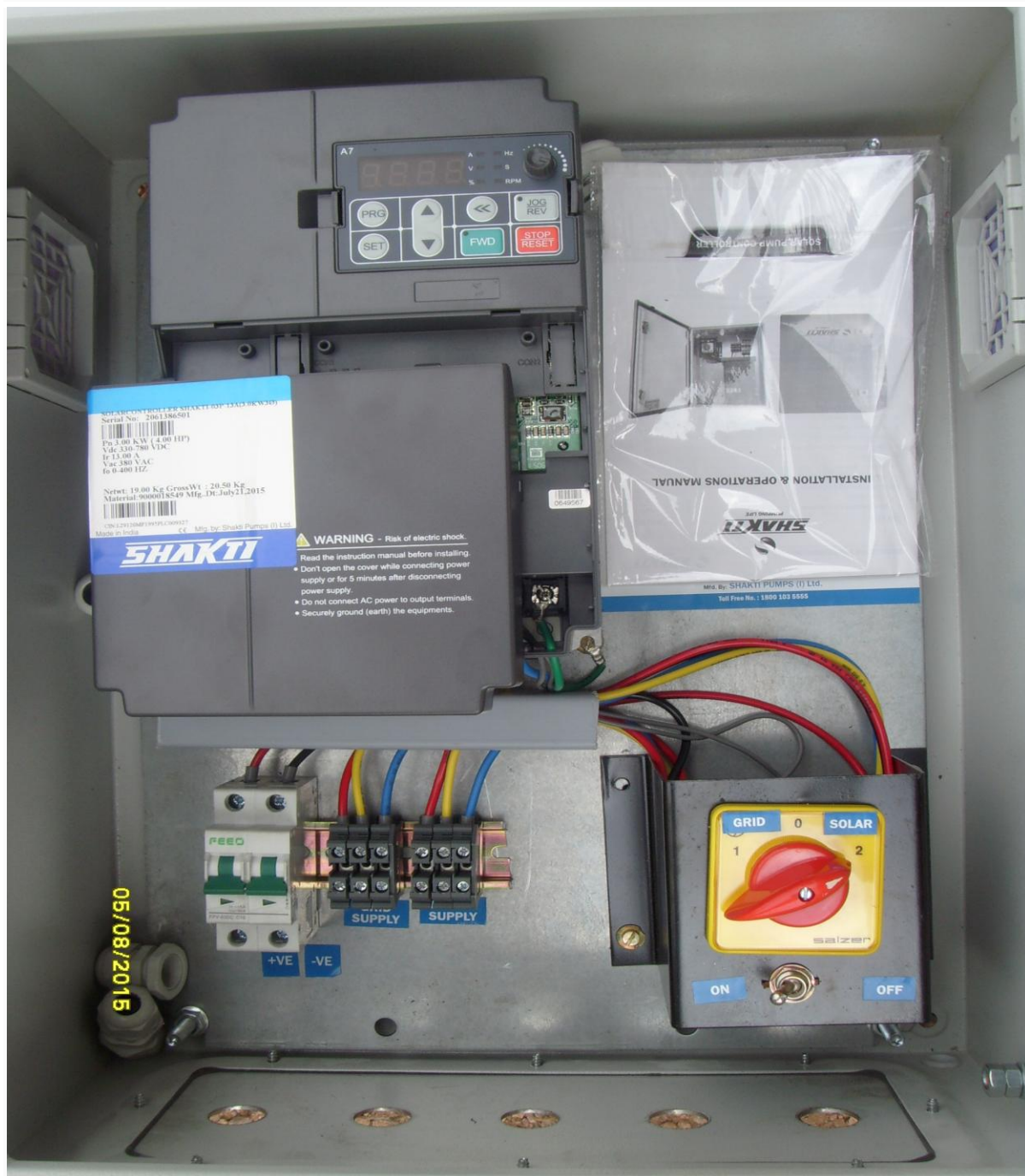


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**Pm-3.00KW (4.00HP), Vdc-330-780VDC Ir-13.00A, Vac-380VAC , Net Weight -19.00Kg**



## Mounting: Fixed



**This project is developed after understanding the water requirement of the customer, who wanted to drip irrigate 10 acres of land.**

**The water from borewell is pumped to the farm pond using 4hp pump. in the pond pumps water @ 38m head to the drip lines. This site is also supplied with 2 led street lights of 9 w each, with individual charge controller and 150W solar Panel with 75Ah Battery .**

**The first few seconds shows the frequency 30 and goes up to 50Hz at full capacity, pump current drawn 7.6A, Motor Voltage 360V i.e 100% full rated performance at 11:30Am time stamp.**