



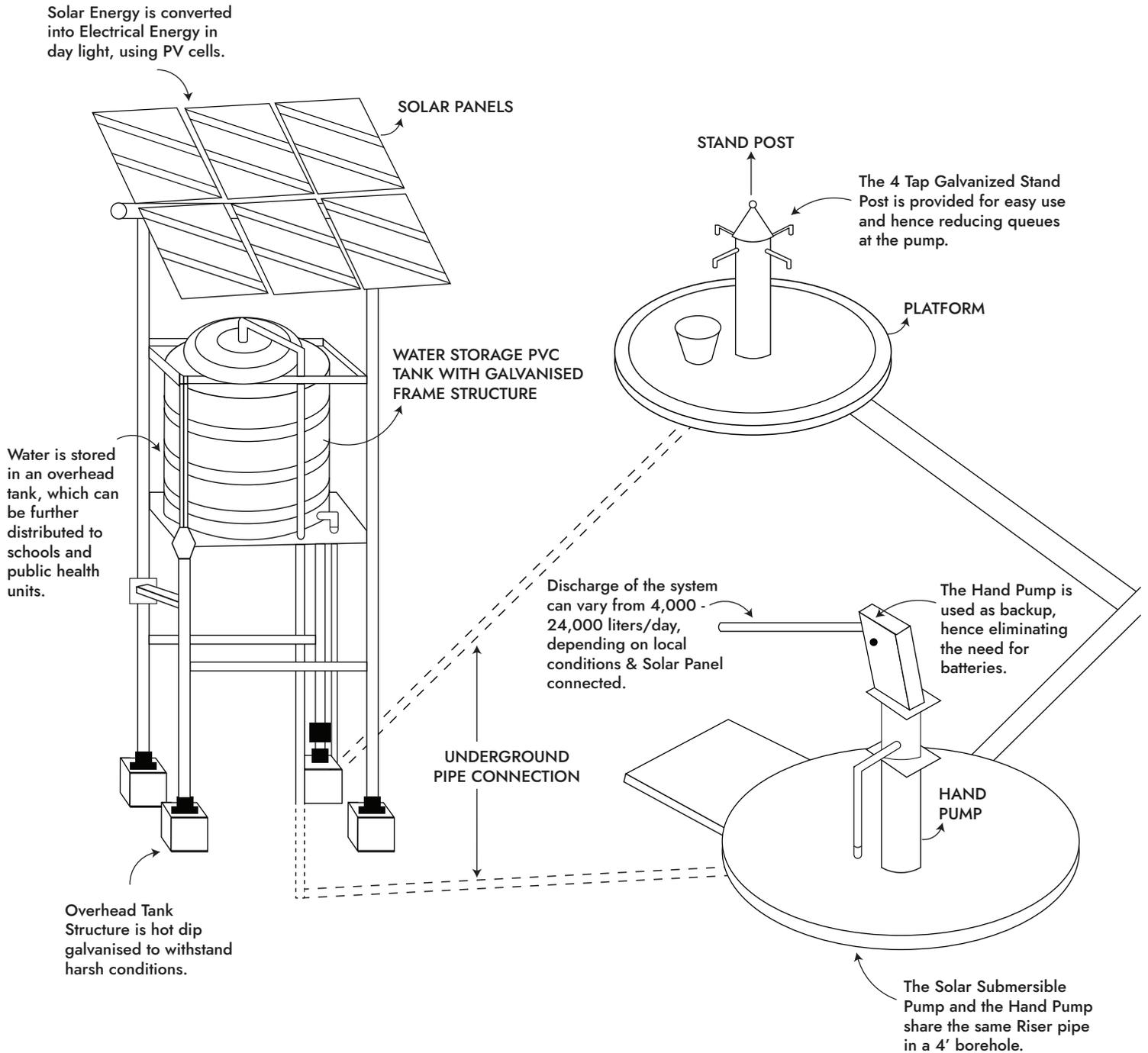
SPAN  
PUMPS



# Solar Dual Pump

24/7 WATER FLOW WITH DUAL POWER TECHNOLOGY

# Innovative Dual-Pump Design for Maximum Efficiency.



Integrated technical design for maximum reliability

# How the Solar Dual Pump System Works

## Working Principle

The Solar Dual Pump is an innovative water pumping solution designed to ensure uninterrupted water availability. It operates on solar energy during daylight hours and seamlessly switches to manual hand-pump operation when sunlight is unavailable—eliminating dependence on batteries or external power sources.

Powered directly by photovoltaic panels, the system uses a submersible pump with a permanent magnet motor, installed below the hand-pump cylinder. It is suitable for borewells of 100 mm diameter and above, with installation depths of up to 90 meters. Pumped water is delivered to a storage tank and dispensed through a stand post.

The system is also adaptable for open wells and storage tanks, offering an eco-friendly, low-maintenance solution with a service life of 15–20 years, making it both reliable and economically viable.



## Variants

Solar Dual Pumps variants include India Mark II, India Mark III, Extra Deep Well Hand Pumps, Afridev Pumps, etc.

## Pump Models

SDP – 3 Meter | 5,000 L  
SDP – 4.5 Meter | 5,000 L  
SDP – 6 Meter | 5,000 L  
SDP – 9 Meter | 5,000 L  
SDP – 9 Meter | 10,000 L  
SDP – 12 Meter | 10,000 L

# Product Features

|                                       |  |   |                                     |
|---------------------------------------|--|---|-------------------------------------|
| <b>POWER SOURCE</b>                   | <b>PUMP TYPE</b>                       | <b>APPLICATIONS</b>                         | <b>MATERIAL</b>                     |
| Solar energy with manual backup       | Submersible with hand pump integration | Drinking water, community supply, rural use | Corrosion-resistant stainless steel |
| <b>OPERATION</b>                      | <b>INSTALLATION</b>                    | <b>KEY PERFORMANCE</b>                      | <b>HEAD RANGE</b>                   |
| Automatic solar & backup power switch | Borewell, open well, storage tank      | 24x7 availability, low O&M cost             | Up to 90 meters                     |

## ENGINEERED FOR DURABILITY

Designed for long-term field performance, the Solar Dual Pump is built to withstand harsh environmental and groundwater conditions

- Corrosion-resistant construction
- High-efficiency pumping performance
- Durable bearings for long service life
- Weatherproof system design
- Suitable for continuous community usage

## Essential System Components

Built with precision-engineered components, each element of the Solar Dual Pump system contributes to reliable, long-term water delivery across varied site conditions.

1. Solar Panels – Direct power generation for pumping
2. Submersible Pump (AC/DC) – Permanent magnet motor design
3. Flocon Pump Controller – Efficient power regulation and protection
4. MS Galvanized Structure – Corrosion-resistant mounting support
5. ISI-Marked Pipes & Cables – Safe and durable connectivity

## SECTORS OF APPLICATION

### Sanitation Sector

Solar Dual Pumps give 24x7 access to water. This water is stored in an overhead tank, which eventually can be connected to filters for drinking, hand washing facilities, toilets and so on. These pumps satisfy the all principles of Water, Sanitation & Hygiene.

### Health Sector

This system enhances the clinical sanitary and sterilized environment required in public health units by providing adequate availability of water.

A purification system can be connected between the outlet and overhead tank to eliminate bacterial viruses in water.

### Education Sector

In many under- developed and developing countries, children miss school for collecting water. Installing these pumps in schools ensures children go to school both education and water.

The sanitation facilities improve in schools with adequate supply of water . This results in higher literacy rate amongst girls who enter their adolescent age.





**SPAN  
PUMPS**

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