

HOW DID SUSTAINABLE WATER SOLUTIONS ENABLE ECONOMIC GROWTH AND PROSPERITY FOR KASHMIR VALLEY FARMERS?



Round the clock water availability to improve irrigation and agricultural yields for Shafiee Orchids in Kashmir Valley.

THE SITUATION

Horticulture is one of the major economic drivers of the Kashmir valley as the soil and prevailing climatic conditions help farmers produce tasty, healthy and quality fruits. However, since the plantations are in remote locations within the valley, critical farming support aspects like access to water and electricity remained unstable. Additionally, the extreme cold and snow conditions disrupt the power supply, leading to periodic power breakdowns for 4-5 hours every time, despite the government's valiant efforts to provide solutions.

Relying on traditional methods of getting water through electric motors is not feasible as there is no steady and stable electricity supply. As a result, inconsistent and unreliable water supply affected the plantations severely, and reaping a good harvest became practically impossible for farmers.

THE SOLUTION

Being an innovation focused company with an unwavering social commitment, Grundfos along with its channel partner M/s. SIAB Surgiments understood the challenges faced by the farmers involved in fruit farming and worked out a sustainable solution. The key focus was to provide continuous availability of water without relying on traditional electricity sources, to ensure uninterrupted irrigation support to the plantations.

Grundfos installed a 5KV PV solar powered system with PV modules, pump, controller and optional storage tank, combined with highly reliable Grundfos solar pump, which can work without any inverter or batteries, thereby eliminating all complexities.



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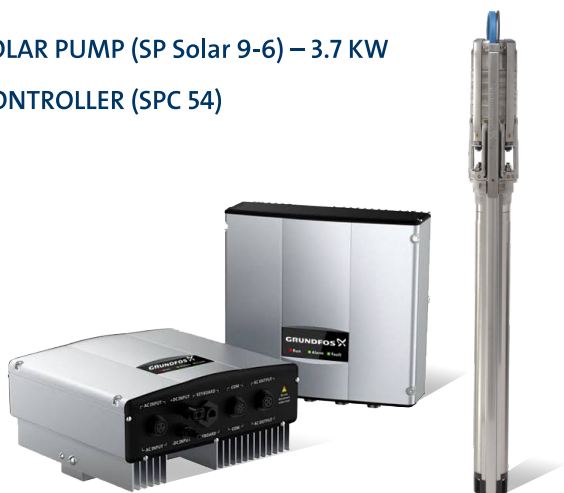
OUTCOME

- Continuous and reliable supply of 25000 litres of water per day that is more than sufficient for the 20 hectare orchid farm.
- Uninterrupted running of the pump ensures nonstop water supply during day time.

GRUNDFOS SUPPLIED

SOLAR PUMP (SP Solar 9-6) – 3.7 KW

CONTROLLER (SPC 54)



"I feel very thrilled when I see water coming out from the ground without spending any money on electricity and that too a sustainable solution. Now, I don't have to worry about finding consistent water supply or depend on grid connection for power."

– Shahid Shafie, Progressive farmer, Shaffie Orchards, Kashmir valley.