


**Thematic area - Agriculture Engineering**  
**Pond with zero energy system**

Particulars	Remarks
Profile of innovator	Name - Jitendra Patidar Address- Gopipur, Shajapur mobile number- 9425936656 Age - 35 Year, DOB-19.01-1984 Education – Graduation Size of land holding (acres) - 15.00 
Problem/ challenge addressed	Due to water scarcity for irrigation and lack of electricity for their farm, farmer develop the zero energy water management system under the guidance of KVK Scientist
Description of innovative practice/technology	storage tank with lining 2.5 crore liter for rabi season crop Solar pump of 5 hp, Micro irrigation of 10 hectare in horticulture crops
Practical utility	With help of Solar pump, polythene over head tank and Drip irrigation, I had made zero energy and zero human Power water irrigation system with doesn't need electricity and human Power. It is the best way to conserve water for summer crop when traditional water sources are not able to fulfill crop water requirement.
Source of information	Krishi Vigyan Kendra, Shajapur
Economics/Profitability of innovative practice/ tech. (costs and return) (per intervention or area or household)	Farmers earn more than Rs 2,50,000 per ha for potato, onion and garlic crop in rabi crop due to improved water management and zero energy system and Rs 50,000 per ha for soybean crop.
Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	More than 50 farmers adopted this technology in shajapur district
Awards State level	ATMA, District award 2018-19



**Raised bed sowing for soybean crop**



**Visit of district Collector for improved farm pond with zero energy system**



**View of farm pond on 13 March 2019 along with 35 % water storage in improved farm pond with zero energy system**



**Visit of Bhopal doordarshan team for recording of success story on improved farm pond with zero energy system**