

## 1/2 DUAL PURPOSE WATER PUMP

Dual purpose water pump serve the purpose of water lifting and also provide Bio fertilizer to farmer



### Solution

DUAL PURPOSE : Water Lifting & Bio Fertilizer

Principle of operation : 1 Cubic Meter simple Bio Digester with agri waste & 100 Grams Bio-Germs of special formula developed by our company which can digest the agri waste in 21 Days and as this digestion is a exothermic reaction will release heat from the mixture which will be carried by cold water circulating inside the tank and this process after 4th day can provide constant 70 Degree hot water as output which will be fed to simple solar thermal collector and temperature is raised to 130 to 150 Degree and this heat is provided as input to low temperature stirling engine which converts heat energy to mechanical energy and this operates a mechanical pump and lifts water . After 21 Days the farmer gets 0.6 Cubic meter Bio-fertilizer and can refill and start the process again on monthly cycle basis.

Equipments Required:

2/2

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Creative's profile



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Renewable energy Business