

Training session for Farmers and Technicians on Operation and Maintenance of Solar Pumping Unit and Precision Surface Irrigation

A training session was organized for farmers and technicians on the afternoon of 31 March 2021 at the Khwaja Fareed University of Engineering and Information Technology (KFUEIT) to teach them the procedure for operating and maintaining solar irrigation pumps used for precision surface irrigation. A total of 19 farmers and technicians participated in the session. This was followed by an exciting lecture and a site visit towards the end, where the training facilitator provided the actual demonstration.

The main issues discussed during the training included the following:

- tripping of motors while switching on the pump
- high current withdrawal of the motor
- jamming of the motor
- pump not lifting the water at all
- leakages at different sides of pumps
- vibration at the head unit
- abnormal noise coming from the pump
- cavitation issues
- impeller wear and tear
- pump not creating required pressure and flow
- damaging of belts and couplings
- bursting of pipes due to compression
- bursting of pipes due to pressure
- burning of circuit breakers
- solar panels are not producing enough energy
- wiring problems



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Swiss Agency for Development
and Cooperation SDC



International Water
Management Institute

Hands on Training and Field/Exposure Visit

Operation and Maintenance of Solar Operated Pumping System integrated with Efficient Surface Irrigation method



Date: 31st March, 2021 (14:30 – 17:00 Hrs)

Site: Research Farm Khwaja Fareed University of Engineering & IT, RYK

Organized By
Department of Agricultural Engineering in collaboration with IWM
Khwaja Fareed University of Engineering & Information Technology

Picture 1: Training Advertisement



Picture 2: Farmers and Technicians Training group photo



Picture 3: Field demonstration