



One day workshop on **Solar Powered Irrigation System (SPIS)**

October 15, 2024



Centre of Excellence on
Digital Technologies for Smart and Precision Agriculture (CoE-DTSPA)
Department of Agricultural Engineering
MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI

Date: 15.10.2024

Time: 09:00 to 17:00 hrs.

Venue: Auditorium, Dr.ASCAET, MPKV, Rahuri

Preamble

The demand for energy is increasing for all the sectors of development. Renewable sources of energy are seen as solutions to meet future energy demands considering the limitations of conventional sources of energy. Agriculture is one of the sectors that heavily depends on energy for its various operations including irrigation. Energy is required for pumping water for irrigation, for which farmers are dependent on electricity. Supply of electricity is not regular and its failure for many weeks result in huge crop losses. In addition, many farmers are still devoid of electricity supply. Solar power offers alternate but promising and environment friendly solution to meet energy demands for irrigating the farms. Solar power also enables irrigation possible even in remote areas. In view of this, there is a need of creating awareness for wider adoption of solar energy for irrigation

Borlaug Institute for South Asia (BISA) in collaboration with GIZ has been organising capacity building trainings on Solar Powered Irrigation System (SPIS) with the objective of training agriculture extension workers, students and progressive farmers for encouraging them for further disseminating and adopting the technology. Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri joined this endeavour with BISA, Jabalpur, initially under CAAST-Climate Smart Agriculture and Water Management, an ICAR-NAHEP project and later under the Centre of Excellence on Digital Technology for Smart and Precision Agriculture. 282 MPKV extension workers, staff and students; and farmers have been trained in 10 batches during, last two and half years at BISA, Jabalpur. The feedback from the trainees was encouraging and this collaboration has definitely helped in spreading the awareness of SPIS among the farmers. Many trainee farmers have already submitted the applications for SPIS through the Government support schemes and extension workers and staff have shown willingness to disseminate this technology further. The students have shown interest in further exploring this technology for its wider adoption.

As a follow up action to the MPKV-BISA initiative on SPIS capacity building programme, one day workshop on Solar Powered Irrigation System (SPIS) is being organised by inviting the trainees and other stakeholders to deliberate on the opportunities for scaling up the adoption of SPIS.

Objectives of Workshop

1. To share the experiences of the MPKV trainees on the BISA's SPIS capacity development programme and obtain the feedback for up-scaling the adoption of SPIS.
2. To deliberate on the strategies for up-scaling the adoption of SPIS.
3. To deliberate on opportunities and limitations of adoption of SPIS





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Programme

Time	Sessions
0900-1000	Registration
1000-1100	Inaugural Session
1100-1130	High Tea
1130-1300	Session-1: Governments' initiative and programmes on upscaling the adoption of SPIS Key Note Speaker: Dr. Kadambari Balkawade (IAS), Director General, MEDA, Pune (MS) <ul style="list-style-type: none">• Discussion on the role of Governments' policies and implementation schemes for upscaling the adoption of SPIS. Session coordinator: Dr. Ravi Andhale, Professor of Agronomy
1300-1400	Networking Lunch
1400-1530	Session-2: Upscaling SPIS adoption through capacity building Key Note Speaker: Dr. Florian Postel , Advisor, Indo-German Energy Program, GIZ, New Delhi <ul style="list-style-type: none">• Feedback of the participants on BISA-MPKV initiative on capacity building• Discussion on strategies for upscaling the adoption of SPIS through capacity building Session coordinator: Dr. Aniket Chandanshive, Asstt. Prof. of Horticulture
1530-1545	Networking Tea
1545-1630	Session-3: Opportunities and limitations of adoption of SPIS Key Note Speaker: Dr. Paresh Shirsath , Scientist, BISA, CIMMYT, New Delhi Deliberations amongst practitioners, farmers, extension workers, scientists, Governments' representatives, financial agencies and suppliers Session coordinator: Dr. Adhir Aher, Assistant Professor of Botany
1630-1700	Way forward and Concluding Session



Patron

Dr. P.G.Patil,

Hon Vice Chancellor MPKV, Rahuri

Dr. Arun Joshi,

Managing Director, Borlaug Institute for South Asia (BISA), New Delhi

Co-Patron

Dr.V.S.Shirke,

Director of Research, MPKV, Rahuri

Convenor

Dr. M.G.Shinde,

Head, Agricultural Engineering and PI, CoE-DTSPA, MPKV, Rahuri

Organizing Secretary

Dr. S.A.Kadam, Associate Professor of IDE and Co-PI, CoE-DTSPA, MPKV, Rahuri

Jt. Organising Secretaries

Dr. Shubhangi Ghadge, Research Associate, CoE-DTSPA (8275441210)

Dr. Vaibhav Malunjkar, Research Associate, CoE-DTSPA (9595193388)

Co-ordinators

Dr. Girishkumar Bhanage, Research Associate, CoE-DTSPA (8855094029)

Dr. Anand Bade, Research Associate, CoE-DTSPA (9420009118)

Er. Nikhil Dugad, Young Professional-II, RKVY-SPCPIS (7588541392)

Er. Tejashree Nawale, Research Associate, CoE-DTSPA (9404810341)

Er. Abhishek Datir, Research Associate, CoE-DTSPA (7387946828)

Er. Shubham Supekar, Senior Research Fellow, Canal Automation Project (7758942292)

Mr. Ajinkya Adhav, Young Professional-II, RKVY-SPCPIS (9545359609)

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