



**Marathwada Shikshan Prasarak Mandal's
VINAYAKRAO PATIL MAHAVIDYALAYA, VAJJAPUR
DIST. AURANGABAD (MS)**

NAAC Re-accredited "A" Grade with CGPA 3.33

UGC College with Potential for Excellence

UGC Stride Component I Recipient

Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Two day's online workshop on "Application of solar power in irrigation"

Organized By

Department of Physics

Under

U.G.C.STRIDE Component I

5th & 6th March 2021, Time: 12.00 pm. to 02.00 pm.

OUR PATRONS



Hon. Shri.Appasaheb Patil
(Krishi Bhushan) Head, CDC



Hon. Shri.Satish Chavan
Member, Maharashtra
legislative Council
Secretary, MSPM Aurangabad
-All CDC Members-



Hon. Shri.Prakash Solanke
Member, Maharashtra
Legislative Assembly
President, MSPM Aurangabad

Date	Theme	Resource Person
05/03/2021	Application of solar power in irrigation	Dr. Sandip Chattopadhyay , Founder -Director, Chandradeep solar research institute, Kolkata, West Bengal.
06/03/2021	Application of solar power in irrigation	Mrs. Madhuchandrika Chattopadhyay Project & Training Head, Chandradeep solar research institute, Kolkata, West Bengal.

Features:

No Registration Charges

Zoom cloud meeting

Open for faculties, Research Scholars and UG/PG Students

E certification

Interactive Sessions

Registration link: <https://forms.gle/Vv4Kt83Khp7D7akQ29>

Organizing Committee

Mr. O.H.Sarage Mr. S.P. Chavan Mr. J.S. Patil Deokar S.E. Mr. M.A. Shinde Mr. Fhasate S.K.
Mr. Kotkar M.T.

STRIDE Committee

Dr. S. N. Babar

Dr. K. P. Bholane

Mr. A. D. Godase

Coordinator

Co-Convener

Convener

Dr. S. D. Pardeshi

Dr. B.G.Lone

Prof. Dr. A.M. Zine

Coordinator STRIDE Component I

Head, Dept. of Physics

Principal

Contact: Dr.B.G. Lone: 8208473408, Mr.O.H. Sarge: 8208362274

**Marathwada Shikshan Prasarak Mandal's
VINAYAKRAO PATIL MAHAVIDYALAYA, VAIJAPUR DIST.
AURANGABAD, DEPARTMENT OF PHYSICS
Two Day's Workshop on
SOLAR POWER IN IRRIGATION
(5th & 6th March 2021)
REPORT**


The Department of Physics organized an online two day's workshop on solar power in irrigation on 5th & 6th March, 2021. The objective of workshop was applications of solar power in irrigation. Dr. Lone B.G, Head, Department of Physics, Vinayakrao Patil Mahavidyalaya, explained key purpose of two day's workshop and welcomed all participants as well.

We invited Dr. Sandeep Chattopadhyay, resource persons for said event. The session was commenced at 12:00 p.m., Dr. Sandeep Chattopadhyay, delivered his lecture by addressing the need of power (energy), why we facing the crisis of power and how to resolve the energy issue. However, further he added, due to load of electricity large number of agricultural crops were unable to yield the required production. To resolve the electricity issue, he suggested the suitable natural environment friendly energy source i.e. solar power.

On 6th March, 2021 at 12:00 p.m., Ms. Madhuchandrika Chattopadhyay, delivered lecture on "Solar energy for irrigation technology" He explained, different solar energy related irrigation technology with basic fundamentals of electronic circuits.

The solar energy for irrigation technology equipment's were available at very low price, she narrated. Overall, the session was informative. There was Q and A session, Dr. Chndrashekar Perumella answered in brief of each asked questions by participants. The total 74 participants were attended the said event

At the end of session, Dr. Lone B.G. Head, Department of Physics, delivered the presidential address. He signifies the need of solar energy, its production and utilization in various fields. Furthermore, He said that the solar scheme announced by government must benefits more in agriculture field. The session was concluded by, Prof. Sarage O.H., Assistant Professor, Department of Physics, with vote of thanks.


Head **HEAD** Department
Dept. of Physics
V. P. Mahavidyalaya, Vijapur
Dist. Aurangabad


PRINCIPAL
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Vinayakrao Patil Mahavidyalaya
Vijapur, Dist. Aurangabad.

Certificate No: VPMV/SE/6



M. S. P. Mandal's

Vinayakrao Patil Mahavidyalaya, Vaijapur,

Dist. Aurangabad (MS)

NAAC re-accredited 'A' Grade (III Cycle) with 3.33 CGPA

*One Day Lecture Series on "Solar Energy for
Agriculture Applications"*

CERTIFICATE

This is to certify that

Mr. / Mrs. / Dr. Kumar Rupesh
of

Shobhit Institute of Engineering & Technology, Meerut.

has participated in One Day Lecture Series on

"SOLAR ENERGY FOR AGRICULTURE APPLICATIONS"

organized by

Department of Physics, Vinayakrao Patil Mahavidyalaya, Vaijapur,
Dist. Aurangabad, Under UGC Scheme, STRIDE Component – I

(Research Capacity Building) on 18th December 2020.

Dr. S. D. Pardeshi
Coordinator
STRIDE Component – I

Dr. B. G. Lone
Co-Convener

Dr. U. V. Panchal
Principal

<https://www.youtube.com/watch?v=CoxK7Hmo8vA>



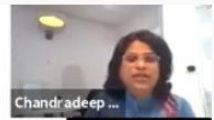
Ms. Madhuchandrika Chattopadhyay



Application of Solar Power in Irrigation

108 views • Streamed live on Mar 6, 2021

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SUBMERSIBLE PUMP

DC SUBMERSIBLE PUMPS

Technical Data	1HP DC Submersible Pump	2HP DC Submersible Pump	3HP DC Submersible Pump	5HP DC Submersible Pump
Pump Type	Submersible / Borewell, Tubewell, Diggi			
PV Array Size (Wp)	1200	1800	3000	4800
Pump Capacity (Hp)	1	2	3	5
Water discharge (LPD) at 7.15 kWh/m ² insolation on PV array	42,000 @ 30m head	63,000 @ 30m head	63,000 @ 50m head	100,800 @ 50m head

AC SUBMERSIBLE PUMPS

Technical Data	1HP AC Submersible Pump	2HP AC Submersible Pump	3HP AC Submersible Pump	5HP AC Submersible Pump
Pump Type	Submersible / Borewell, Tubewell, Diggi			
PV Array Size (Wp)	1200	1800	3000	4800
Pump Capacity (Hp)	1	2	3	5
Water discharge (LPD) at 7.15 kWh/m ² insolation on PV array	38,400 @ 30m head	57,600 @ 30m head	57,000 @ 50m head	91,200 @ 50m head

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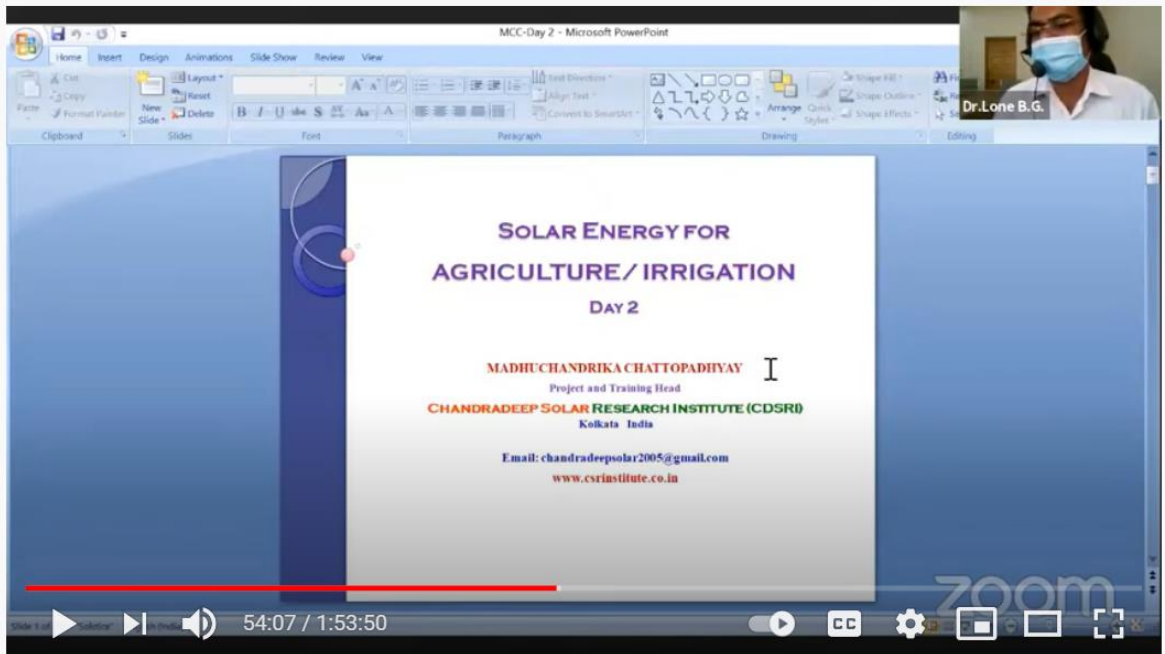
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AGRICULTURE SCENARIO IN INDIA

Agriculture plays a vital role in India's economy. 54.6% of the population is engaged in agriculture and allied activities (census 2011) and it contributes 17.4% to the country's Gross Value Added for the year 2016-17.

Currently, over 30 million agricultural pumps are installed in India. Of these, 10 million pumps are diesel based consuming 12 percent of India's total diesel consumption (4 billion litres annually) and over 20 million grid-connected agriculture water pumps installed in the country consume 18.1 per cent of total electricity in FY 2017-18 (CEA) (85 million tons of coal annually).

58:27 / 1:53:50

Zoom

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