

# **INSTITUTE INNOVATION COUNCIL**

**Pt. Ravishankar Shukla University, Raipur [C.G.] 492010**

Website: <https://www.prsu.ac.in>

Email ID: [iicpresident.prsu@gmail.com](mailto:iicpresident.prsu@gmail.com)

## **Report**

**Institution Innovation Council, Pt. Ravishankar Shukla University**

**Conducted**

**Exposure Field Visit**

**To**

**Chhapariya Agro Industries,  
Bhelwadih, Abhanpur, Raipur**

**And**

**Nearby Solar Plants in Naya Raipur**

**On**

**02<sup>nd</sup> – 03<sup>rd</sup> May 2024**

# INSTITUTE INNOVATION COUNCIL

Pt. Ravishankar Shukla University, Raipur [C.G.] 492010

Website: <https://www.prsu.ac.in>

Email ID: [iicpresident.prsu@gmail.com](mailto:iicpresident.prsu@gmail.com)

## Poster

 **INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of Education Initiative)

 **MoE's  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)



 **75**  
Azadi Ka  
Amrit Mahotsav

 **G20**  
भारत 2023 INDIA

**Institute Innovation Council**  
**Pt. Ravishankar Shukla University, Raipur**  
*Organizing*  
**“ Exposure Field Visit to Chhapariya Agro Industries,  
Bhelwadih, Abhanpur, Raipur  
and Near by Solar Plants in Naya Raipur ”**  
*on*  
**May 02-03, 2024**



*Kavita*

**Dr. Kavita Thakur**  
**President IIC**

Pt. Ravishankar Shukla University, Raipur, Chhattisgarh- 492010

**वसुधैव कुटुम्बकम्**

**ONE EARTH • ONE FAMILY • ONE FUTURE**

# INSTITUTE INNOVATION COUNCIL

Pt. Ravishankar Shukla University, Raipur [C.G.] 492010

Website: <https://www.prsu.ac.in>

Email ID: [iicpresident.prsu@gmail.com](mailto:iicpresident.prsu@gmail.com)

## Details of Event

<b>Name of Program Type</b>	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre such as Atal Incubation Centre etc. (Calendar Activity under IIC-PRSU)
<b>Name of Program Theme</b>	Exposure Field Visit to Chhapariya Agro Industries, Bhelwadih, Abhanpur, Raipur and Nearby Solar Plants in Naya Raipur
<b>Objective</b>	Aims to provide practical insights into agro-industry operations and solar plant technologies, enhancing participants' knowledge and skills.
<b>Benefit</b>	Gain hands-on experience, understand agro-industry and solar technologies, and learn sustainable practices, enhancing their practical knowledge and skills.
<b>Duration of Activity</b>	2 days
<b>Mode of Event</b>	Offline
<b>No. of Students Participants</b>	10
<b>No. of Faculty Participants</b>	2
<b>No. of External Participants</b>	NIL
<b>Expenditure Amount</b>	1000

## Social Media Links:

### Facebook-

[https://www.facebook.com/permalink.php?story\\_fbid=pfbid022EgELQtNss7KDDDVKXHer3xyEw6p1N3cWpTC7TusCjBFoaiTreidd56aLpMmauKml&id=61550557089486](https://www.facebook.com/permalink.php?story_fbid=pfbid022EgELQtNss7KDDDVKXHer3xyEw6p1N3cWpTC7TusCjBFoaiTreidd56aLpMmauKml&id=61550557089486)

### Instagram-

[https://www.instagram.com/p/C7YZw1cohsd/?utm\\_source=ig\\_web\\_copy\\_link&igsh=MzRIODBiNWFIZA==](https://www.instagram.com/p/C7YZw1cohsd/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==)

# INSTITUTE INNOVATION COUNCIL

Pt. Ravishankar Shukla University, Raipur [C.G.] 492010

Website: <https://www.prsu.ac.in>

Email ID: [iicpresident.prsu@gmail.com](mailto:iicpresident.prsu@gmail.com)

## About the Speaker

Dr. Rajib Das explained about the solar power plant deployed 2 String Solar Inverter of capacity of 5KW & 6 KW, 02 Combiner Boxes, 02 ACDB & 01 Lightning Arrestors. 4sq mm DC Cables are used to connect string of module to inverter and inverter to Grid is connected by 3.5 core armored cable. The 400 KW site of Chhapariya Agro Industries is managed by Greenfinity Powertech Pvt. Ltd., Raipur. Plant is divided into 02 two section, one 300 KW is ground mounted and another 100KW is on Shade.

## Photos of the Event



# INSTITUTE INNOVATION COUNCIL

Pt. Ravishankar Shukla University, Raipur [C.G.] 492010

Website: <https://www.prsu.ac.in>

Email ID: [iicpresident.prsu@gmail.com](mailto:iicpresident.prsu@gmail.com)

## Conclusion/Outcomes of the Webinar

The students of B.Voc.RETM II & IV semester were taken to 400KW On-Grid Solar Power Plant situated Bhelwadih, Abhanpur of Raipur District for Industrial visit on 02.05.2024 that is on Thursday as a part of Industry interaction to students along with two faculty members. The students assembled in the Institute Campus at 10:30 AM. After attendance we left for site visit at 11:00AM and reached Solar Power Plant at Bhelwadih, Abhanpur at 12:15 PM. The site is located at approximate distance of 29 kms. from Institute.

The objective of the site visits is to explore and understand practical, economically viable, scalable and sustainable energy access models. The participants will have a first-hand experience of the technology, business model, end application, operations and maintenance and on the ground issues of energy access models.

The 400 KW site of Chhapariya Agro Industries is managed by Greenfinity Powertech Pvt. Ltd., Raipur. Plant is divided into 02 two section, one 300 KW is ground mounted and another 100KW is on Shade.

While the visit, students of RETM got opportunity to understand the working & functions of each section of power plant like Solar Module, Earthing, Junction Box, Strings & Array formation, Module Cleaning System, Protection Devices, Lightning Arrestors, Isolator switches, Central Inverter Unit, CT/PT Transformer, Switchgear, Substation and grid interaction.

The students of B.Voc.RETM II & IV semester were taken to 11KW On-Grid Solar Power Plant situated Kota road, Raipur of Raipur District for Plant visit on 03.05.2024 that is on Friday as a part of Industry interaction to students along with two faculty members. The students assembled in the Institute Campus at 10:30 AM. After attendance we left for site visit at 11:30AM and reached Solar Power Plant at Krishna hostel, kota road at 12:15 PM. The site is located at approximate distance of 10 kms from Institute.

The objective of the site visits is to explore and understand practical, economically viable, scalable and sustainable energy access models. The participants will have a first-hand experience of the technology, business model, end application, operations and maintenance and on the ground issues of energy access models.

The 11 KW site of Krishna Hostel is managed by Greenfinity Powertech Pvt. Ltd., Raipur. Plant is divided into 02 two section, one is 5 KW another is 6 KW on rooftop of hostel.

While the visit, students of RETM got opportunity to understand the working & functions of each section of power plant like Solar Module, Earthing, Junction Box, Strings & Array formation, Module Cleaning System, Protection Devices, Lightning Arrestors, Isolator switches, grid interaction.



**Dr. Kavita Thakur**  
President IIC

Pt. Ravishankar Shukla University, Raipur, Chhattisgarh- 492010