



INTEGRATED INTER-DISCIPLINARY RESEARCH (IIR) CENTER



PROJECTS SANCTIONED BY GOVT. OF INDIA TO TO RKDF UNIVERSITY IN 2018-19

- PROJECT I : Carbon Capture Project (vide letter dated 6-2-2019)
- Sponsored by Ministry of Power, CPRI (Central Power Research Institute)
- CPRI Grant Amount-
- Project Outlay - Rs. 53.50 Lacs
- PROJECT II : Solar Thermal Project 40 kW (vide letter dated 29-3-2019)

Project Outlay :

- Rs. 81.50 Lacs

- Rs. 38.5 Lacs

- Sponsored by: Ministry of New & Renewable Energy (MNRE), Government of India
- MNRE Grant Amount Rs. 39.00 Lacs

In Both the Project collaborating organization is RPI, NY, USA

A view of the Solar Thermal Plant



<u>video</u>

Asia's first and World's third Solar Integrated Carbon Capture Plant an RKDF University

Enlys / RKDF / RPI / MNRE CSP Project



- Store heat from solar-powered
 Scheffler Dish steam generation system (at ~200 °C)
- Discharge the stored heat at night to continue generating steam



TARGETS FOR 2022-23

- Carbon Capture Plant on 500 MW Unit at Singrauli Thermal Projects.... 13.00 Cr. Project submitted to MoEF (Green Climate Fund through NITI Aayog)
- Technology Incubation Center Project submitted to ATAL COMMUNITY INNOVATION CENTER (ACIC)... 2.5 Cr.
- EOI for Thermal Energy Storage (TES) Plant of 5MWth (1.25 MWe)Capacity using concentrated Solar Plant ...25 Cr. (Jt. Venture with SKIPL)

Development of carbon capture and sequestration technology on MW size Unit of a Thermal power plant

The table top pilot plant shall be installed before the Chimney as shown below on the flue gas duct. About 6 Tons per day for 16 Hours operation will be tapped-off from the chimney.



Taylormade / Enlys / RKDF / RPI / MNRE CSP Project Phase II @RKDF University (2019-21)



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TATA CENTER



Pay RKDJ University Rupees Jen Lac only or bearer ₹10,00,000

India Innovation Growth Award- 2018 (DST & TATA TRUST)











RKDF University is committed to use Renewable Energy Technologies through deployment of Solar PV plants and Innovative R&D Projects in Solar Thermal in Collaboration with Rensselaer Polytechnic Institute (RPI), USA