

**A Report on “Rayalaseema Thermal Power Project (RTPP)” Muddanur, Kadapa, Andhra Pradesh
08.01.2023**



Submitted by: **Dr. V B Thurai Raaj**, Assistant Professor, Department of EEE

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No. of students visited : 43
Year & Semester : III Year I semester B. Tech III Year EEE-A students
No. of faculty Members accompanied : 04
Date of Visit : 08.01.2023

One-day Industrial Visit to Rayalaseema Thermal Power Project (RTPP), Muddanur has been organized for the III Year I semester B. Tech, EEE, Sec.-A students on 08th January 2023.

Faculty Accompanied:

1. Dr. V B Thurai Raaj
2. Mr. S. Bharath Kumar
3. Mrs. K. Revathi
4. Mr. Y. Ramanjaneyulu

The Industrial Visit to RTPP started at 6.30 AM by college bus and reached the plant by 11.00 AM. The total crew was divided into five batches with a size of 11 students under the guidance of each faculty member. The students along with faculty members visited the plant between 1.00PM and 5.00 PM. **Sri P. Hari Babu**, AEE/O&M/ Stage-II/RTPP elaborated the functioning mechanism of the Rayalaseema Thermal Power Project (RTPP) and strongly insisted that safety precautions should be adhered to during the visit.

About RTPP:

Rayalaseema Thermal Power Station is located at Yerraguntla (Md) in Kadapa District in Andhra Pradesh. The power plant is one of the coal-based power plants of APGENCO. The Thermal Power Station has a capacity of 1650 MW ; 5 units of 210 MW each and 1 units of 600 MW as listed below.

Plant	Installed Capacity (MW)	Date of Commissioning	Status
I	2X210	1994	Commissioned
II	2X210	2007	Commissioned
III	1X210	2010	Commissioned
IV	1X600	2018	Commissioned

RTPP was developed under 3 stages namely stage I, II, and III. The station has been performing well in the recent years by achieving a high plant load factor. It stood first in the country during 98–99, 2002–03, 2003–04 and second during 99–2000, 2001–02. The station has received Meritorious productivity awards for six consecutive years and Incentive award for seven consecutive years. BHEL commissioned stage IV unit 1x600MW in March 2018 leading to total installed capacity of RTPP to 1650MW.

Field Visit Information:

The students visited all segments of the Power Plant and interrogated with the experts.

Various segments like

1. Cooling Towers
2. Unit Control Board(UCB)
3. Main Control Room(MCR)
4. Turbine Floor
5. Switch yard
6. Generator Transformer Yard
7. Boilers
8. Bunkers
9. Mills (pulverized coal)
10. Cooling Tower pump house

were visited by our students. The students learnt the internal functioning mechanism and observed the working environment of the plant by undergoing the visit. They experienced the operation of each segment by visualizing their practical aspects.

The visit was more interactive with effective learning and the students were made to learn the innovative technology implemented in the plant. We extend our sincere gratitude to the Management, Principal, Dean-Administration, Vice Principal, Associate Dean-IIIC, and Head of the Department-EEE for their fruitful encouragement and constant support in arranging & organizing the industrial visit.