



**Department of Electrical & Electronics Engineering**

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

<b>Submitted by</b>	<b>: Dr T S Balaji Damodhar, Assistant Professor-EEE</b>
<b>No. of students visited</b>	<b>: 59</b>
<b>Year &amp; Semester</b>	<b>: III Year I semester B. Tech III Year EEE-C students</b>
<b>No. of faculty Members accompanied</b>	<b>: 05</b>
<b>Date of Visit</b>	<b>:11.12.2022</b>

One-day Industrial Visit to Rayalaseema thermal Power Project (RTPP), Muddanur was organized for the III Year I semester B. Tech, EEE-C students on 11<sup>Th</sup> December 2022.

**Faculty Accompanied:**

1. Dr. T. S. Balaji Damodhar
2. Dr. P Bala Kumar
3. Mr. E. M. Krishna Tejus
4. Ms. Revathy Gopinath
5. Mr. Shahenshah Syed

The Industrial Visit to RTPP, started at 6.15 AM by college bus and reached the plant by 11.30 AM. Total crew was divided into five batches with a size of 12 students under the guidance of each faculty member. The students along with faculty members visited the plant between 1.15 PM 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 the safety precautions that should be adhered 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.



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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 is performing well in the recent years by achieving high plant load factor. It stood first in 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

- i) Cooling Towers
- ii) Unit Control Board (UCB)
- iii) Main Control Room (MCR)
- iv) Turbine Floor
- v) Switch yard
- vi) Generator Transformer Yard
- vii) Boilers
- viii) Bunkers
- ix) Mills (pulverized coal)
- x) Cooling Tower pump house



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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 (Academics and Administration), Associate Dean-IIIC, and our Head of the Department-EEE for their fruitful encouragement and constant support for arranging & organizing the industrial visit.

### Photos:

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)  
Madanapalle-517325, Annamayya Dist., Andhra Pradesh

Organized by Department of Electrical & Electronics Engineering

**Industrial Visit**

to

**Rayalaseema Thermal Power Project  
(RTPP)**

**Kalamalla, Kadapa, AP**

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### Madanapalle Institute of Technology and Science, Department of Electrical and Electronics Engineering

#### FEEDBACK REPORT ON INDUSTRIAL VISIT

CLASS: B. Tech III Year SEMESTER : Even odd ACADEMIC YEAR : 2022-23

Name and Address of Industry Visited: Rayalaseema Thermal Power Plant Yerraguntla, Kadapa, A. P.

Date : 11.12.2022 Duration : 1.30 Pm to 5.00 Pm

Beneficiary Dept. : EEE Year/Semester: III / I

Total No. of Students: 59

Industrial Visit organized by: Dr T S Balaji Damodhar, Assistant Professor, Dept. of EEE

Name of Industrial Visit in-charge and other Faculty who accompanied the students:

Site in charge: Chief Engineer - RTP

Other Faculty Names:

1. Dr. T.S. Balaji Damodhar
2. Dr. P. Balakumar P
3. Mr. E. M. Krishna Tejus
4. Ms. Revathy Goipnath
5. Mr. Shanenshah

Contact Person at Industry: Mr. P. Hanumanth  
AEI / O&M / Stage - II / RTP

Visit related to the subject:

1. Thermal power generation system,
2. Electrical Power Generation Systems,
3. Transmissions systems and
4. Protective Systems

During visit the students were taken to following Departments in the Industry

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. Pulveriser
10. Cooling tower pump house



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### Madanapalle Institute of Technology and Science, Department of Electrical and Electronics Engineering

Names of Student who offered feedback (Feedback enclosed)

1. O. Kathiyayini
2. T. Faziza
3. Rajibhaksh Yadav. S
4. Raha Manth Ali. S.
5. Girish. P.

Sign. of Industrial Visit in- charge with Seal:

PEE/SDS/IGC/Stage-II  
Assistant Executive Engineer  
I&C, Sub Division-V, Stage-II

T. S. Subbarao  
Sign of Faculty In-charge

T. S. Subbarao  
Sign of Faculty Organizer

RTPB/ARGENCO

Signature of HOD

Encl:

1. Industrial Visit report with photographs.
2. Permission letter

Head of the Department  
Electrical & Electronics Engineering  
Madanapalle Institute of Technology & Science  
MADANAPALLE - 517 325



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ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED  
RAYALASEEMA THERMAL POWER PROJECT



From  
The Chief Engineer/O&M,  
R.T.P.P., V.V. Reddy Nagar,  
Y.S.R. Kadapa (Dist.)

To  
The Principal,  
Madanapalle Institute of  
Technology and Science  
Madanapalle-517325  
Chittoor (Dist.)

Lr.No. CE/O&M/RTPP/SE/A&MM/EE/(Adm)/PO(B)/JAO/T/D.No.402/22, dt.08-12-2022.  
Sir,

Sub:- AP GENCO - RTPP - Industrial Visit permission to 59 Nos. Students and 05 Nos. Faculties of Madanapalle Institute of Technology & Science, Madanapalle on 11-12-2022 (Sunday) - Permission - Accorded.

Ref:- Representation dt 02-12-2022 from the Principal Madanapalle Institute of Technology & Science, Madanapalle

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With reference to the above, it is to inform that permission is hereby accorded to 59 Nos. Students and 05 Nos. faculties of Madanapalle Institute of Technology & Science, Madanapalle to visit R.T.P.P. between 01.30 PM to 05.00 PM on 11-12-2022 (Sunday) as study tour.

The following are the terms and conditions while they are in plant visit.

- 1) The students may be attached to Sri P. Hari Babu (ID.No. 1073601) Asst. Executive Engineer/O&M/Stage-II/RTPP along with S.P.F Staff.
- 2) Necessary instructions may be issued to the students with regard to safety measures/precaution to be followed.
- 3) No fees shall be collected from the students.
- 4) The college/school shall depute their faculty members to monitor during the plant visit.
- 5) The students should follow all the safety precautions such as WEARING HELMET, IDENTITY CARD, SHOES, TUCKING INSHIRT, WEARING APRON FOR LADIES DURING PLANT VISIT and AP GENCO shall not be liable for any type of injury/accident occurred to your students.
- 6) The students shall have to make their own arrangements for lodging, boarding and transport on the day of visit to RTPP.
- 7) The students shall be held responsible for any loss/damage caused to the AP GENCO equipment.
- 8) No Electronic goods are allowed in side the plant premises including TABS, CELL PHONES, CAMERAS etc.,
- 9) The students are strictly instructed not to wander in the Project/Colony premises & they should accompany with their guide only.
- 10) The guide must accompany with their students. If any violation of the students is noticed like taking photos & Selfies and going to edges of highest places the guide will be punished.

You are requested to advise the concerned staff to meet Sri P.Hari Babu (ID.No. 1073601) Asst. Executive Engineer/O&M/Stage-II/RTPP

  
for CHIEF ENGINEER/O&M/RTPP

Copy to the :

- 1) Asst. Commandant/SPF/RTPP. For necessary action please.
- 2) Assistant Security Officer/F&I/RTPP
- 3) Sri Sri P. Hari Babu (ID.No. 1073601) Asst. Executive Engineer/O&M/Stage-II/RTPP He is directed to co-ordinate the plant visit and necessary guidance to the students during the plant visit based on the consent given by him. He will be solely responsible for the safety and security of the students during the period of plant visit.

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**Madanapalle Institute of Technology & Science**  
Department of Electrical & Electronics Engineering  
**INDUSTRIAL VISIT FEEDBACK FORM**

Name of the Student : T.S. Raghavath Aii  
Course, Branch & Semester : EEE, Elect - 3rd year - C section 3 - I sem  
Name of the Industry : Rayalaseema Thermal Power Plant Yerraguntla, Kadapa, A. P  
Date : 16/12/22  
Type of Interaction : Industrial Visit

Questions	Response of Students
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Willingness to share information & details by the officials of the organization	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input type="radio"/> Excellent <input checked="" type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Whether any relevant technical literature explained by the industry person	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the whole training based on a well-defined schedule and adherence to the schedule?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Do the people in the organization encourage interaction with them or extended support in clarifying your doubts or providing information you have sought for?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input checked="" type="radio"/> Excellent <input type="radio"/> Good <input type="radio"/> Fair <input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input checked="" type="radio"/> Strong <input type="radio"/> Can be considered <input type="radio"/> Not

T.S. Raghavath Aii  
Signature

*T.S. Raghavath Aii*

Faculty Organizer

*Pavani*

HOD-EEE

Head of the Department  
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