



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi. and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.
Phone: 08659-222933, Fax: 08659-222931

DEPARTMENT OF CIVIL ENGINEERING

Report on Industrial Visit to Dr. Narla Thata Rao Thermal Power Station



Visit Details:

Total no. of students visited plant: 40 (Final year students of Civil Engineering, LBRCE)

Date of Journey: 30/1/2023

Faculty Coordinators:

S.No	Name of the Faculty	Designation
1.	Mr. B. Rama Krishna	Sr. Assistant Professor
2.	Mr. K. Harish Kumar	Sr. Assistant Professor

Objective of the event: To understand the fly ash collection and disposal, pollution control measures and power distribution process in Thermal Power Plant

Outcome of event: Students acquired knowledge of power production and distribution process in coal based thermal power plant and observed the working of Water treatment plant, coal handling equipment's, coal crushers, Boilers, super heaters, Economisers, Condensers, Generators, Switch yard, ash handling equipment's Cooling tower etc



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Photograph:



Technical Training Class at Training Institute
Dr. NTPPS, Ibrahimpatnam



Students gathering at Training Institute Dr.
NTPPS, Ibrahimpatnam



Students gathering in the Stage V



Mr. Vijay Bhaskar, DE explaining about
Stage V construction



Students gathering in the Stage V



Mr. Prasad, AE explaining about Stage V
construction



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Students gathering at Dr. NTTPS Plant

Description / Report on Event:

The IV B.Tech II Semester Students of Civil Engineering accompanied with Two Faculty members visited Dr.NTTPs, Ibrahimpatnam dated 30.01.2023. The main objective of the visit is to bridge the gap between industry and academia. This power plant is one of the coal-based power plants of APGENCO. It is well placed between Ibrahimpatnam and Kondapalli village. Visit contains two sessions morning session Power plant over view class from 11.00am to 1.30pm and afternoon session Plant visit 2.30pm to 5.30pm. After arriving the training Institute of APGENCO, Ibrahimpatnam Mr. Vijay Bhaskar, Divisional Engineer explained about the power plant overview by power point presentation from 11.15 to 1.00pm. In the presentation instructor explained about the Dr.NTTPs introduction and the working of boilers, Steam Turbine, Economiser, coal handling equipment then followed by lunch break 1.00pm to 2.pm. Afternoon session plant visit, Students and faculty moved from Training Institute to plant, where APGENCO training institute Chief Engineer allotted two guides. The guides were explained about the Dr.NTTPs introduction & Safety precautions. Under the guides supervision the students first visited the Coal bunkers where the coal unloaded from wagons into the belt conveyors, next visited water treatment plant, Boilers working, cooling tower and power distribution room, switch yard etc. Dr.NTTPs, Ibrahimpatnam consists of total IV stages and each stage consist two units except Stage IV. Each unit consist of one boiler, turbine and generator and power generation capacity of each unit is 210MW, Stage IV 540MW, Stage V under construction stage of 800MW.