

**A Brief Report on site visit at “Ghatumpur Thermal Power Plant” held on 21<sup>st</sup> March, 2023 organized by the Department of Civil Engineering, Integral University, Lucknow.**

The Department of Civil Engineering in collaboration with L&T organized a site visit for the student of Civil Engineering at Ghatumpur Thermal Power Station construction site located at Ghatumpur Tehsil in Kanpur district of Uttar Pradesh on 21<sup>st</sup> March 2023. Such site visit are designed to demonstrate how academic concepts are implemented in real life.



**View of Ghatumpur Thermal Power Plant**

The Ghatumpur thermal Plant is planned to be a coal-based supercritical thermal power plant with a capacity of 1980 MW(3X660 MW). The thermal power plant will comprise three 660MW supercritical Coal-fired power generating units, each unit will be equipped with a super-critical forced-circulation & pulverized firing boiler, a 3000 rpm multi-cylinder reheat condensing turbine generator, a 275m high tri-flue chimney and a natural draft cooling tower. The Ghatumpur thermal power plant will be expected to generate 14000 million units (MU) of energy each year and will consume about 11.35 million tonnes (Mt) of coal in a year.



A total 9 students accompanied by Mr. Mohd. Kashif Khan and Mr. Mohd Sadat, faculty members from Integral University and Mr. Upainder Kaiser, representative from L&T EduTech, visited the site. At the plant office, Mr. Debu Ghosh and Mr. G. Jaishanker welcomed all students and Mr. Cheema, Senior Engineer, L&T, briefed about the plant through Power point presentations and videos. Mr. Irfan Khan, Safety Engineer, then discussed the importance of safety and safety norms to be followed at the construction site. The safety shoes and reflective jackets has been provided to all the visitors before entering the construction site.



Mr. Shukla and Mr. Bharat, Engineer from L&T accompanied the visiting group to the site and discussed the details of boiler assembly, cooling tower, and chimney of the power plant. Mr. Shukla discussed about material and type of foundation for boiler assembly, cooling tower and chimney and also discuss construction procedure of the same.



The visit was very beneficial for the students as they get exposed to the various component of power plants, its construction and about various construction materials used. Students also learned about the safety norms followed at power plants site.