

**G.PULLAREDDY ENGINEERING COLLEGE (AUTONOMOUS):
KURNOOL**

IEEE STUDENT BRANCH (STB15721)

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Sub: Report on Industrial Visit to JSW Cement.

IEEE Student Branch organized an industrial visit to Jindal South West Cement Industry under Industrial Applications Society Chapter.

Objective: The main objective of this visit is to provide the students transparency, dynamism and passion to learn practically through interaction by analysing and understanding the technologies in the industries and also that helps them in gaining the knowledge regarding an organization structure and its functionality.

Target Audience: UG Students of II and III EEE. A total of 45 students and 4 Professionals visited the industry.

Description of the visit:

Before the start of the visit JSW team introduced about the JSW Cement industry profile and safety measures to be followed by all the visitors which is very important during the visit. Then we were taken to the mining view, where the JSW engineers team briefed about the plant and the process that is applied for the manufacturing of cement.

And then we were taken to the workshop and given a brief description regarding how the cement is manufactured by using raw materials like limestone and slag and they gave an idea of how the equipment like slip ring induction motor and squirrel cage induction motor are used in the stages like crushing, grinding, formation of clinkers, cooling and storage of the cement. The JSW Cement team shared some important points regarding how their cement is of good quality in terms of the raw material and the equipments they use and the advantages of using those raw materials and equipments.

Then we were taken to Main Resource Sub Station. It is a 220KV Sub Station. They explained about the different types of transformers they use and how

they step down the voltage to 11kv by using transformers of particular rating. They also described practically, the difference of isolators and circuit breakers which are used for protection. They discussed even about the faults that were occurred in the running condition of the grid. Overall explanation regarding the topics like machines, power systems and power electronics were discussed and doubts were clarified to the students regarding practical analysis of these topics in the sub station.

And after that storage section was shown to us in which all the required cement is stored and packed according to the requirement and demand of the customers.

Later on after the lunch there was a photo session. Finally the visit concluded by thanking the JSW Cement Management and its team for their valuable information, suggestions to the students and their active involvement throughout the visit.

The team of IEEE GPREC at the mining view.



