

A Report on Industrial visit at

'Pethe Brake Motors, Modka Agar, Guhagar'

By

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Report

Department of Electrical Engineering have successfully organized Industrial visit at Pethe Brake motors, Modka Agar for Second Year Electrical Engineering Students.

Students reported company at morning at 9:30 am. Mr. Yogesh Katdare was also present as a mentor faculty with the students for industrial visit. First of all, students have shown industry's common workshop. Some fully automatic and semi-automatic drilling machines were shown to students along with its programing and codes.

After that students met to Mr. Dipak Katdare. Mr. Katdare explained us company product and its importance, its applications. Mr. Katdare also shown us various books and manuals of Indian standards which their company is being referred for manufacturing. After his informative introduction, we reported Electrical Department

In Electrical Department, we have shown how Motor high voltage testing is carried out. This high voltage testing is carried out in order to measure the insulation resistance and reliability of insulation. 2000 volts are applied to the motor terminals and test is performed.

Also we have shown how winding is performed, how coils are made, how wire gauge is determined, various Indian standards of motor dimensions etc.

In afternoon session, we have shown how varnish is applied on 3 phase induction motor in order to make its insulation even stronger. Also its heating process is shown. The entire session was so much fruitful and we were gaining lot of practical knowledge. In Electrical department we were also shown actual load test of 3 phase induction motor. Water pump is used as a load and completely assembled motor is loaded in order to calculate its full load current, torque, no load current, power factor, current in all 3 phases, voltage etc. all parameters. This was the final test of motor before selling. All the readings were recorded and compared with standard readings. The motor which passed this test with accurate matching with standard readings only gets ready for selling.

Afterwards we also seen how brakes are made and how those brakes can able to stop the motor suddenly. Brake testing is also shown to us. Various programmed machinery and skill of company employees was literally joy to watch.

Finally we met again to Mr. Dipak Katdare and we were thankful to him for giving us so much wonderful oppotunity to organize industrial visit in their esteemed organization.

To make this visit successful, Dr. Vijay Bedekar (Chairman of VPM, Thane), Mr. Avinash Pawar (Principal MPCOE) and Mr. Satish Ghorpade (HOD Electrical) have taken special efforts.

Some photographs are herewith.





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