

K. K. Wagh Institute of Engineering Education & Research, Nashik

Department of Electronics & Telecommunication Engineering

AY: 2016-17

Industrial Visit Report

Name of Industry Visited:	Nasik Thermal Power Plant, Eklahare
Address of Industry Visited:	Eklahare village, Nashik taluk, Nashik district, Maharashtra
Date of Industrial Visit:	25 th March 2017, (1:30pm to 6:30pm)
Target Participants:	students of (Electronics)
Number of Participants:	70 students of TE (Electronics) + 3 staff members
Name of Course for which Industrial Visit Organized:	Power Electronics and application
Name of Visit Coordinator:	Prof. P.P.Patil
Name of Instructor:	Mr. Vikas Patil (Assistant engineer)
Outcome of Industrial Visit:	Students will be able to elaborate structure, operation principle and working of Thermal power plant. (This outcome is mapping to PO1, PO2, PO3, PO5, PO6)

About Visited Industry:

The thermal power station has rated capacity of 630 MW and has 3 units of 210 MW each. It uses a coal-fired boiler to produce steam for power generation. Nashik Thermal Power Station has an installed capacity of $140 \times 2 + 210 \times 3 = 910$ MW. The first unit was commissioned in 1970. The cost of unit including civil works was Rs 56.5 crores. and the second unit also commissioned with the same cost under the first stage. the second stage consists of three units of 210 MW each was commissioned in the later years. the power station campus includes self-contained township with all amenities. The entire land consists of 474 hectares. The power plant has got ISO Certification on April 2002.

[Maharashtra State Power Generation Company \(Mahagenco\)](#) is planning to deploy 660 MW super-critical unit at the same location just like the current plant. This project will be stationed adjacent to the existing stage-I plant (2 x 140 MW) site at village Eklahare. Land requirement for the proposed project is about 36.6 hectares. The coal sources will be from Mahanadi coal blocks by MahaGuj Collieries. The total cost of the project is around Rs 4,390 crore, 20% contribution will be by the State Government amounting to Rs 878 crore. The remaining funds will be supported from several lending institutions.

It is on the [Bhusawal–Kalyan section](#) of [Central Railway](#). Coal-based thermal power stations consume large quantities of coal. The Nashik Thermal Power Station consumed 4,626,000 tonnes of coal in 2006-07. Around 80 per cent of the domestic coal supplies in India are meant for coal based thermal power plants and coal transportation forms 42 per cent of the total freight earnings of Indian railways.

Shaktiman is a scrap metal sculpture built by NTPS intended to be a symbol of visionary resourcefulness. It weighs 27 tonnes, is 17 metres tall, and is in the Guinness Book of Records. It is meant to stand as a symbol of innovative idea in word and spirit, inspiring visitors that wealth from waste can be a reality. Sculptor Dr. Sudhir Deshpande created it in 1990. He started it in 1989 and finished in 8 months.

Prof P.P.Patil
Industrial Visit Coordinator

Photos of Industrial Visit:

