

Industrial Visit to Mahindra and Mahindra Ltd, Nagpur (M.S.)

School of Engineering & Technology, G. H. Rasoni University, Saikheda organized Industrial Visit to Mahindra and Mahindra Ltd. Farm Equipment Sector at MIDC, Hingna Road, Nagpur on 20th October' 2018 for B.Tech. in Engineering And Diploma in Engineering III and V Semester students.



Mahindra and Mahindra Ltd. (FES)

Mahindra & Mahindra Ltd.'s, Farm Equipment Sector (FES), a part of the US \$ 19 billion Mahindra Group. As the market leader in India for the past 30 years, FES has helped bring FarmTech prosperity to the Indian farmer with technologically superior affordable solutions. Mahindra has achieved the distinction of being the largest tractor company in the world with tractor sales in more than 40 countries across six continents with more than 1000 dealers world-wide.

In its quality journey, FES has won the Deming Application Prize in 2003 for Brand Mahindra and in 2012 for Brand Swaraj. FES is the second company in India to win the Japan Quality Medal in 2007, followed by the TPM Excellence Award in 2011 and TPM Consistency Award in 2013.

FES has a strong QMS, EHS system in place and manufacturing unit at Nagpur is certified for ISO 9001:2008, OHSAS 18001:2007 & ISO 14001:2004.

In 2007, Farm Equipment Sector, Mahindra & Mahindra Ltd. took over Punjab Tractor Ltd. and added Swaraj to its brand stable. FES has 7 state-of-the-art tractor manufacturing plants in India of which one is located at Nagpur in MIDC, Hingna Industrial area.



Photo up of Students and Faculty at Mahindra and Mahindra Ltd.

- ▶ "Mahindra" is the world's largest selling tractor brand, by volume and India's No.1 tractor maker for more than three decades now. They are the only tractor company to have won the Deming Prize and Japan Quality Medal. Their high quality, tough and durable tractors and implements raise productivity in farms across all continents on earth. Through a string of global tie-ups, most notably with Jiangsu Yueda Group in China and Mitsubishi Agricultural Machinery of Japan, they are well poised to lead the industry for years to come. They have gathered a large client base across the nation and also export to USA with brand name Mahindra USA (MUSA) and Japan to name a few.



Assembly of Tractors in Assembly section at Mahindra and Mahindra FES

- ▶ The whole range of finished products is checked strictly at every stage in various parameters to provide highest quality Tractors and farm equipments.
- ▶ More than 30 students of Second and Third year of B. Tech. in Engineering and Diploma in Engineering took the benefit of the Industrial visit to learn more about Engine and Hydraulic Section, Transmission Section and Tractor Assembly section. They were informed that there are 15 tractor models in all and they are manufacturing their own Engines with max. capacity starting from 40 HP to 120 HP. They also saw the Robotic arm painting used for the whole chassis of the Tractor body after which it goes to the Assembly line.
- ▶ The industry is lead by a team of qualified Training Officer **Mr. Sanjay Agrawal**. He gave the required permission to visit the various sections and valuable guidance to students that helped them to understand various processes in the plant. He also informed that Total Plant Capacity is 401 tractors per day and the time taken for complete assembly of one tractor is 3.25 minutes. They work on the principle of Continuous improvement and therefore developed Horizon 1 and Horizon 2 as their role model for this. Mr. Yogesh Kathalkar and Mr. Abhijeet Ubarhande, Human Resource Department at Mahindra and Mahindra Ltd. coordinated the visit at the various sections inside the plant for our students.

Prof. Puja Lonare assisted the students during the visit for explaining the various Civil structures and to make it successful under the coordination of **Prof. Ajay Mahawadiwar**, Training and Placement Coordinator, School of Engineering and Technology who also guided and explained the Mechanical Engineering part in the various sections under the guidance of **Dr. Ulhaskumar Gokhale**, Dean, School of Engineering & Technology, G. H. Rasoni University, Saikheda. **Prof. Shahayajali Sayyed** assisted in the smooth conduction of the visit by taking care of the transportation part.