



**Department of Farm Machinery and Power Engineering
College of Agricultural Engineering and Technology,
AAU, Godhra**

**A brief report on Two days Industrial Study Tour of 4th Semester
B. Tech (Agril. Engg.) Students**

During current Even Semesters, the Department of Farm Machinery and Power Engineering have two courses in 4th Semester. These courses are related to the tractor and farm machinery. To get practical knowledge and make familiar with latest and modern trends and technologies used in tractors and other farm machineries, two days industrial study tour of 4th Semester students was conducted on March 15 & 16, 2019.

First day, two private companies Viz. **Captain Tractor Private Limited, and Dharati Agro Engineering, Shapar (Veraval)** were visited. The Captain Tractor Private Limited is the pioneer company in the field of Mini Tractor. Also they are manufacturing complete range of matching equipments for mini tractor right from equipments required from seed bed preparation to harvesting and transporting. The students observed complete assembling line of the mini tractor manufacturing and got in depth knowledge about gear, differential, hydraulic, steering systems of tractor along with other technical specifications of the 2Wd and 4WD tractors series manufactured by the company. Dharati Agro Engineering is one of the major company which manufacturing all range of seed drills and planters. The students have seen that the company has adopted so many new technologies in manufacturing seed drill for easy adjustment and precise dropping of the seeds in the soil.

Second day, students visited **College of Agricultural Engineering and Technology, JAU, Junagadh, Tirth Agro Technology Private Ltd and Madhav Polymer, Gondal, Rajkot**. At CAET, Junagadh students visited Implement shed, particularly the innovative equipments developed by the UG and PG students to overcome the specific problems of agriculture, Testing and Training Centre of farm Machinery and Central Museum. Tirth Agro Technology Private Ltd as brand name 'Shaktiman' is pioneer company in manufacturing rotavator. Along with rotavator, the company is also manufacturing fertilizer broad caster, combine harvester, boom sprayers, stubble shaver and so many other agricultural equipments to make agriculture more safe, hazardous free and economical. The students were very much impressed by seeing modern machinery/techniques used in manufacturing process of rotavator like robotic welding, laser cutting, power coating, CNC machines, gear tooth formation machine etc. The visit was also extended to Madhav Polymer where the students had seen the complete manufacturing process of PVC pipes and inline dipper laterals.

Thus, the tour was proved very useful, informative, knowledgeable and inspirable to the participated students. The tour was planned, organized and conducted by Dr. R. C. Salunkhe, and Dr. K. L. Dabhi, Assistant Professors of the FMPE Department, CAET, Godhra very successfully.

Glimpses of Industrial Study Tour



