

## A REPORT ON INDUSTRIAL VISIT TO SANDVIK ASIA LIMITED ON 21.01.2019

### Introduction to Company:

Sandvik Asia is manufacturing different types of Rock Drills, Mining Tools and other Oil Field based drills supplying major portion of its products to U.S.A and 20% of its sales to India. They are in technical tie up with France. They are having plants in every country and globally successful entrepreneurs in Cutting tool Industry.

Sandvik's operations are based on unique expertise in materials technology and extensive insight into customer processes. This combination has provided world-leading positions in the following primary areas:

- Tools and tooling systems for metal cutting as well as components in cemented carbide and other hard materials
- Equipment and tools for the mining and construction industries as well as various types of processing systems
- Products in advanced stainless steels, special alloys and titanium as well as metallic and ceramic resistance materials

**Report on Industrial Visit:** The Department of Mechanical Engineering, CMR Engineering College planned student strength of 25 along with 3 staff members Dr K.Harinarayana Professor, Mr.Mukesh Reddy, Asst Professor and Mr. Shiva Shanker, Machine Tools Lab, CMREC deputed to visit Sandvik Asia plant and after oral discussions made with the Company authorities. Students of III year II semester Mechanical Engineering students dressed in formal along with Aprons and Safety shoes as per the rules of HR from Company.

Mr.Venkatramaiah, General Manager , Planning and Materials Department along with Mr.Kamesh, Factory Purchase Manager welcomed the staff and students of CMREC at the Plant Gate.

Following key areas are visited by the Students:

1. **Rotary Tools Area:** Students gone around all the machines and observed the operation of all the CNC machines along with process flow in manufacturing tools.
2. **Top Hammer Tools:** This shop manufactures different rock drills and mining tools and supply in bulk to all Mining Corporations and Rock Areas. Students are gone around the shop and observed the functioning of metrological instrumentation, EOT crane performance, other CNC and Machining Centres.
3. **Heat Treat Shop:** This consists of heat treatment of tools in furnaces operated by digital techniques. Mr Kamesh explained the temperature controllers and other functioning of heat treatment.

4. **Deep Through Hole Tools (DTH Tools) Area:** It Consists of different cutting tools being supplied to ONGC and other areas. Basically it consists of different CNC centres with automatic controls. Students are explained with operation and maintenances of different CNC centres.
5. **Other Areas:** Other areas like Fire Hydrant Systems, Cooling Tower areas and Utilities, Generator Sections are visited by the Students.

All the other hospitality is managed by the company authorities and visit is ended by 3 PM.

A Sample Photographs of Industrial Visit is enclosed here under:



Fig. At college



Fig. At Company



Fig. Rough Carbide Tools