

Department of Mechanical Engineering, MET BKC IOT-P, Nashik organized an Industrial Visit to “Supernova Water jet Cutting Systems, G-26, MIDC Ambad, Nashik on 24, 27 & 28 August 2018.

Objectives of Visit:

It is necessary for a Diploma Mechanical Engineer to know about the advancements in the area of manufacturing processes. This visit will impart knowledge & skills necessary for working in modern manufacturing environment. It will help the student to get familiarize with working principles and operations performed on non conventional machines, and maintenance of machine tools. Also it will help to understand the overall plant layout and organization structure of Advanced Manufacturing Industry.

Visit Details: DAY 1-TYME 1 (No. of Students-53) -24/08/2018, 10.00 am Onwards, **Staff Involved:** Prof. A G Wattamwar, Mr. V V Rakme
DAY 2-TYME 2 (No. of Students-42) -27/08/2018, 10.00 am Onwards, **Staff Involved:** Prof. J G Dhopte, Prof. K G Deshpande
DAY 1-TYME S (No. of Students-45) -28/08/2018, 10.00 am Onwards, **Staff Involved:** Prof. V E Kothawade, Prof. V B Kalmegh

Coordinator of Visit: Prof. V B Kalmegh, Lecturer in Mech. Engg. & Coordinator of Ind. Visit Committee

Glimpses of Industrial Visit to “Supernova Water jet Cutting Systems, Nashik”





Water jet cutter use technology of high pressure water that is typically between 30,000 and 60,000 psi. This creates extremely concentrated force to cut stuff such as foam, rubber, plastic and others. Abrasive jet cutters mix abrasive garnet to pressurized water stream to cut harder materials like stainless steel, titanium, glass, ceramic tile, marble and granite. As water jet machining is based on "cold cut" process, it is also safe for cutting flammable materials like plastic and polymers. Also due to cool cutting there are no deformation in Metals and does not develop any internal cracks. With a reasonable cutting speed setting, the edges resulted are also satisfactory. Water jet technology is now becoming a most demanded cutting solution in Aviation Industry, Ship Building, Machine Building, Precision Mechanical Fabrication Industry and also Construction and Interior design profile cuttings.

Supernova Water jet Cutting Systems was formed in 2009, with the aim to provide high quality fabrication products. Supernova with its strong technological background has become one of the key players in manufacturing diversified products range. It has the facility to cut any material up-to 100mm thickness with 0.5mm accuracy with the help of CNC Water jet Cutting Machine from Techniwaterjet Australia. For precise accuracy, SWC Snow equipped with advanced technology of CO2 3.2KW CNC Laser Cutting Machine from Mitsubishi, Japan to cut sheet metal materials up-to 20 mm thick with 0.1mm accuracy. Apart from the cutting, SWCS have entire set up for different operations in fabrication such as Bending, Welding, Machining & Pickling to manufacture quality fabricated products of mild steel and stainless steel. Within a short span SUPERNOVA achieved remarkable Good will in the Industry.