



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

**Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution**

**Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada**

**L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India**

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**SUMMARY OF INDUSTRIAL VISITS**

**A.Y: 2016-17**

<b>S.No</b>	<b>Class/ Section</b>	<b>Name of the Industry</b>	<b>Date of visit</b>	<b>No. of Students</b>
1.	II B.Tech (B-Sec)	Krishna Engineering Works (Prakasa Spectro Cast), Enikepadu	23.09.2016	72
2.	II B.Tech (B-Sec)	Pratap Industries, Enikepadu	23.09.2016	72
3.	III B.Tech (B-Sec)	G.S.Alloys Castings Ltd, Surampalli	18.10.2016	71



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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **REPORT ON EVENT “INDUSTRIAL VISIT TO “G.S.Alloys Castings Ltd., Surampalli”**

Event Type	:	Industrial Visit of III B.Tech B-Section Students
Date / Duration	:	18.10.2016 / one day
Name of Industry	:	G.S. Alloys Castings Ltd., Surampalli
Faculty Accompanied :		Mr.K.V.Viswanadh
Total no of students	:	71
Objective of the event :		To get exposure to the centrifugal casting and various manufacturing processes.
Outcome of event	:	Students acquired knowledge of centrifugal casting process used for making Cylinder liners and the working of CNC machines.

#### **Description / Report on Event:**

The III B.Tech B Section Students of Mechanical Engineering accompanied with four staff members (including 2 teaching & 2 non teaching) visited G.S. Alloys Castings Ltd., Surampalli on 18-10-2016. The main objective of the visit is to bridge the gap between industry and academia.

G.S. Alloys Castings Ltd., Surampalli is one of the leading manufacturers established in 1987. G S Alloy Castings developed into one of India's prominent jobbing foundry dedicated to producing superior steel castings ranging from 50 to 27000 kgs. The company's steady growth is a reflection of its commitment to customer needs and quality. We offer cost effective solutions for the success of our customers.

We are capable of manufacturing castings from a broad range of steels. Our range of materials include,

- Plain Carbon Steels
- Alloy Steels
- Wear, Heat and Corrosion Resistant Steels
- Stainless Steels
- Stainless Steels
- Manganese and High Chrome Steels
- Ductile Iron

**Feedback / Suggestions:** The students felt very happy and they expressed that they have learnt a lot about the centrifugal casting process and working of CNC, milling, grinding machines.

**Photographs:** The following are the photographs of Industrial Visit of III year B-Section Student to G.S. Alloys Castings Ltd., Surampalli.

:



Impeller  
600 lbs



Die Casting  
9000 lbs



Pump Casing  
2100 lbs



Crank Gear  
8800 lbs



Spider Casting  
4000 lbs



Valve Body  
6600 lbs

Products of G.S.Alloys castings pvt. ltd.



Blast furnace



Stainless steel products



Continuous sand mixers



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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **REPORT ON EVENT “INDUSTRIAL VISIT TO PRATHAP INDUSTRIES and PRAKASA SPECTRO CAST P LTD. , ENIKEPADU”**

Event Type	:	Industrial Visit of B.Tech –II Year B-Section Students
Date / Duration	:	23.09.2016 / one day
Name of Industry	:	M/s Pratap Industries and Prakasa Spectro Cast Pvt Ltd, Enikepadu.
Total no of students	:	72
Objective of the event	:	To get exposure to the production practices in industries.
Outcome of event	:	Students acquired knowledge of fundamental manufacturing processes like furnaces, casting process and use of different machines and tools for further finishing.

#### **Description / Report on Event:**

The II B.Tech B Section Students of Mechanical Engineering accompanied with four staff members (including 2 teaching & 2 non teaching) visited **Pratap Industries**, Vijayawada and **Prakasa Spectro Cast Pvt. Limited**, Vijayawada on 23-09-2016. The main objective of the visit is to bridge the gap between industry and academia. These industries mainly focus on manufacturing of various material castings as per customer requirements.

After arriving the industry, the students were divided into two batches and the first batch was sent to Pratap industries and the second batch to Prakasa Spectro Cast Pvt. Limited. Mr. Raghava Prasad, MD, Pratap Industries & Mr. Partha Sarathi, MD, Prakasa Spectro address the respective students and introduced about the industry. Later they allotted a supervisor and sent them to visit the industry. The supervisor explained the steps involved in casting process & safety precautions.

The industry consists of two units, namely casting unit & machine shop. The casting unit consists of various processes includes pattern making, mould preparation, melting of metals, pouring of metals in to the mould cavity, solidification process, and fettling. The companies using sand with silica as additive for mould preparation. Using silica the sand stables for high temperatures.

The Machine shop consists of various machines to perform various machining operations such as Lathe machine, Radial drilling machine, Shaping machine, slotting machine, Planning machine, grinding machine (radial and Surface), etc.

**Feedback / Suggestions :** The students felt very happy and they expressed that they have learnt a lot about the casting process and observed the process of different machines and machine tools.



Photographs: The following are the photographs of Industrial Visit of II year B -Section Students to M/s Prathap Industries and Prakasa Spectro Cast Pvt Ltd, Enikepadu.



Molten metal from furnace in casting



Inside view of pratap industries



Making of holes using vertical drilling machine



Boring operation of large Gear