

A Brief Report on the Industrial Visit to **M/S Jayaswal Neco Industries Ltd.**, in the Siltara Industrial region, Raipur, C.G.

*Conducted by*



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## **DETAILS OF JOURNEY**

On August 21<sup>st</sup> – 23<sup>rd</sup>, 2024, the 3<sup>rd</sup> semester students of Metallurgical and Materials engineering department from NIT Raipur went on an industrial tour to **M/S Jayaswal Neco Industries Ltd.**, which is situated in the Siltara Industrial region, near Raipur, C.G.

The visit was organized by Dr. Sudip K. Sinha (departmental coordinator IICC) in association with HOD of MME Dr. S. Ganguly and other faculty members.

We started travelling from the college campus at 9:30 am (approx.) via our Institute bus. Totally **96 students** along with **4 faculty coordinators and 4 research scholars** were present in this three-day long program. Details of Journey are appended as follows:

### **Day-wise information of the Trip**

#### **Day 1(21.08.2024):**

**Group 1: 32 students (UG 3-rd Semester, MME)**

**Faculty members: Dr. S. K. Sinha; Dr. R. Bheekya Naik**

**Research Scholar: Mr. Bittu Kumar**

#### **Day 2 (22.08.2024):**

**Group 1: 28 students (UG 3-rd Semester, MME)**

**Faculty members: Dr. N. Sruthi Neelam; Dr. R. Bheekya Naik**

**Research Scholar: Ms. Ipsitha; Ms. Anju Kaushal**

#### **Day 3 (23.08.2024):**

**Group 1: 36 students (UG 3-rd Semester, MME)**

**Faculty members: Dr. S. K. Sinha; Dr. Deependra Singh**

**Research Scholar: Mr. Gaurav Chauhan**

## **Day-wise break up of Events:**

### **Session 1 (11 am -3:30 pm, including Lunch):**

All students attended a one-hour session of presentation on Steel industry in India and the contribution of the company (M/S Jayaswal Neco Industries Ltd.) in producing various high-quality grades of alloy steels for automotive, Railways and other relevant applications.

### ***Visit of specific part of the integrated steel plant:***

- 1.) Blast furnace division.
- 2.) Steel Melt Shop (SMS-1)
- 3.) Refractory division

### **A.) Session 2: Refreshment at the Company Canteen (2:30 pm -3 pm):**

The HR staff invited the students to the company canteen for refreshments as a show of hospitality. This gave students the chance to interact casually with **M/S Jayaswal Neco Industries Ltd.**, staff members and get a firsthand look at the working atmosphere. *(This is to inform Photography inside the plant is strictly prohibited.*

## **About the Company**

In cooperation with China Shougang International Trade & Engineering Corporation, Jayaswal Neco Industries Limited opened the 10 million tons per annum (MTPA) Integrated Steel Plant at Siltara Growth Centre, Raipur, Chhattisgarh, in 1996. Situated in the country's "Steel belt," the property spans 1200 acres.

The factory started producing iron, and soon after that, in 2004, an electric arc furnace was added. Additionally, the plant has five captive power plants with a 60 MW total capacity.

The Steel Plant Division manufactures iron and steel goods to meet the needs of India's railway, automotive, engineering, power, structural, and fastener industries. The installed production capacity of JNIL-Steel Plant Division is 700,000 MTPA via the blast furnace route and an additional 300,000 MTPA using the direct reduced iron (DRI) route. Among its offerings are specialized steels. Hot-rolled bars in square and round shapes, wire rods coiled, and strong leaf springs in flat shapes.

**The primary objectives of the Industrial visit to M/S Jayaswal Neco Industries Ltd. is as follows:**

- 1.) It assists students in learning firsthand about the operation of an integrated steel factory, with an emphasis on alloy steel in this instance.
- 2.) Industry visits help students make the transition from classroom instruction to hands-on learning in a real-world setting.

- 3.) Students are better able to identify their potential areas of employment within the overall organizational function through industrial visits.
- 4.) Examine the cutting-edge equipment and machinery used in the different industrial processes.
- 5.) Discover the function that M/s Jayaswal Neco Industries Ltd. performed in the manufacturing of different grades of alloy steel products for use in a range of engineering applications (such as those in the automobile, railroad, or marine industries).

### **Selected Snaps of the Tour**

