

MME/853/17  
DT: 8/12/17

**Department of Metallurgical & Materials Engineering**  
**Visvesvaraya National Institute of Technology, Nagpur-440010**

**Date: 08.12.2017**

**Submitted:**

**Subject: Report on Industrial Visit of 2<sup>nd</sup> year B.Tech (Metallurgical & Materials Engineering) students at Bhilai Steel Plant on 2-3 December, 2017**

The industrial visit for the 2<sup>nd</sup> year B.Tech students of our department on 2-3 December, 2017 was approved. We started from Nagpur on Friday (01/12/2017) with students including 13 girls students and one female faculty (Dr. V. Udhayabanu). We reached Bhilai on Saturday morning and stayed there in Hostel 3 (Management Trainee Hostel) for the whole visit. We started for plant visit around 10 AM after completing some gate pass making formalities for us. We went first to the rolling mill plant where the India's largest and the only rail producing unit is running. We understood the whole process there that how the rails are manufactured and transported to the railways for the rail track. Next, we went to the coke oven plant where the coal to coke conversion was evidenced which very inherent part of steel making industries. Further visits were concentrated on Blast furnace iron making and steel making shop. We went to the blast furnace 7 which is the latest blast furnace running in the plant. It was fascinating for us to see the hot metal production at almost 1600°C what we learnt in classes as a theory. Next, we went to the steel making shop to learnt about the steel making where the hot metal produced from blast furnace was being cleaned/alloyed to realize the required steel grades. Finally, we started back on Sunday (03/12/2017) from Bhilai to Nagpur and reached here by the same night. We acknowledge greatly the support of Nitin Joshi Sir (DGM, Projects) in realizing the visit for us.

We had wonderful discussions with many eminent technical people and engineers and learnt many more intricacies about the iron making and steel making processes. I strongly believe that the visit was really helpful for us to correlate the class activities to the ground level technological applications.

Yours sincerely

*Ajeet Kumar Srivastav*  
Ajeet Kumar Srivastav

Forwarded by,

Head (MME)

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8.12.17

To

The Director

VNIT, Nagpur

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