

Objective : To identify a solution for Material Handling in a Metal Rolling Plant

Description :

- 1.** In Metal rolling plants, Metal Billets (1 ton maximum) are needed to be received and moved to certain process areas, which is currently done using cranes and manual guiding. Manual guiding presents a safety risk.
- 2.** The scrap generated or brought in for melting is moved around on trucks or fork lifts and then lifted by a crane hook. The guiding and adjustment activity is again manual, which is a safety risk.

We are looking for a solution to remove the manual guiding portion by usage of a robotic arm or a remote controlled guide.

Challenge Scope :

- 1. Current practices** – Manual guiding for Crane hooks fixing and movement on the material.
- 2. Challenges faced** – Heavy billets or scraps hanging on to crane, guided by hand are a safety risk.
- 3. Scope of implementation** – All Hindalco rolling plants.