Evaluating Increasing Capacity of Steel Hot Rolling Line to 4.2 Million Ton per Year in Mobarakkeh Steel Complex
What is currently being done there

Continuous Casting Machines

Cooling Area

30 Minutes
Water
Air
3 days

Quality Control & Scarf Operation

Storage For Furnace

Furnace

Hot Rolling
First building model of the situation which the capacity was 3.8 Million Ton

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Finding Bottleneck

- The model shows the conveyor which is being used to transfer the slabs to warehouse of furnace is bottleneck
- First the model get evaluated the impact of adding a parallel conveyor
- But the warehouse of furnace get bottleneck & capacity does not get increased
Hot Charge New Technology

• By use of better quality of slabs there is no need to cool down the slabs & then again making them hot for environment temperature.
Advantages of Hot Charge

• Increasing the total capacity to 4.2 Million Ton
• Decreasing the work in process
• Avoid to loosing the temperature
• Energy Saving
Finally the required facilities & the layout for the Hot Charge Technology get evaluated with Simulation model to get 4.2 Million Ton per year capacity