

Improving Connectivity In The Blasting And Painting Area

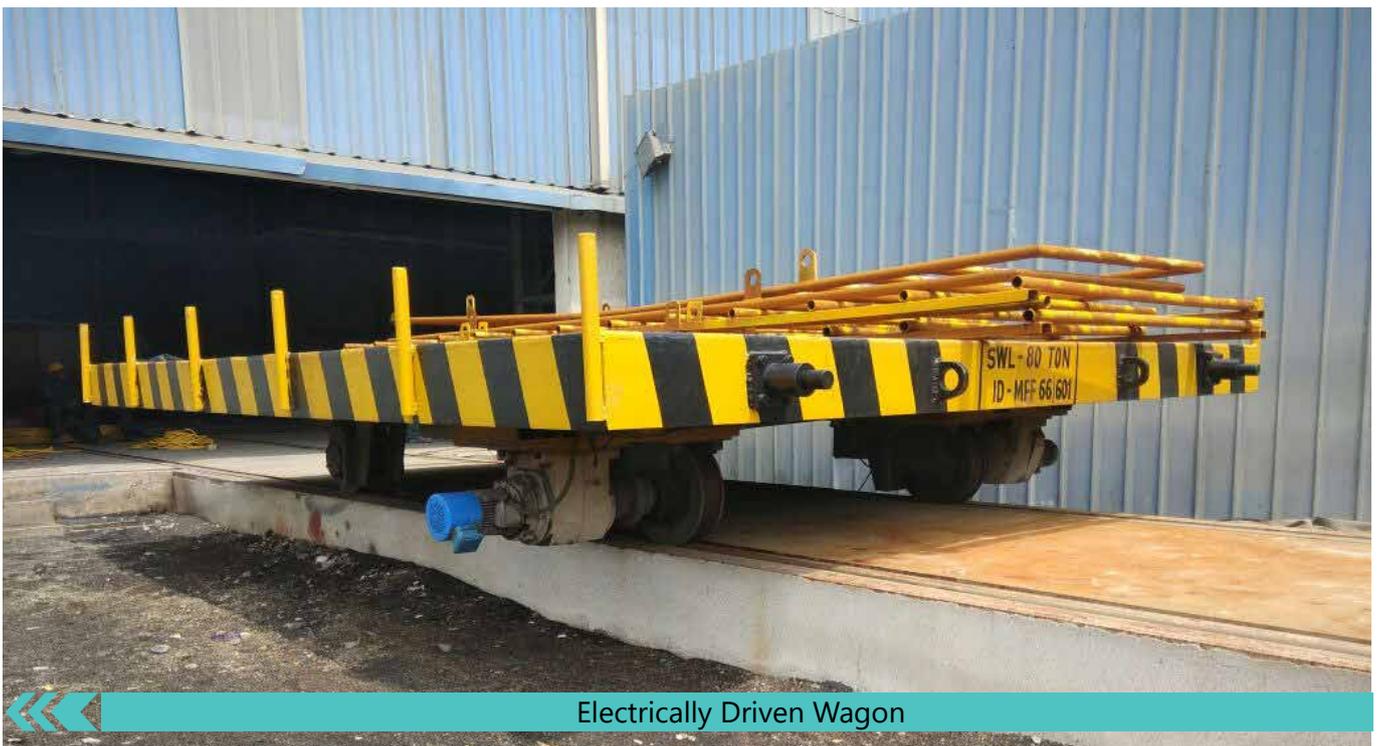
We believe that even the smallest changes in material flow can have big impacts in terms of emission reduction, cost savings and productivity. Therefore, we actively work towards identifying areas where improvements can be made. One such case was at our Modular Fabrication Facility in Hazira where we installed an electrically driven wagon, made by utilizing existing assets at the shop, to transport material from the priming area to the painting area. The entire blasting and painting shop is 134 m long, where earlier, the primed material was first transported outside on a trailer and then lifted to the painting area using Hydra, a diesel dependent material handling unit. This set-up moved the material by 75 m in the process chain.

Cost Reduction

The total payback period of the project was calculated to be around 8 years. Since the use of material handling by Hydra was eliminated, it resulting in a cost reduction of ₹ 0.75 lakh/month. Additionally, the need for manpower for material handling also decreased, resulting in a cost reduction of ₹ 0.60 lakh/month.

Benefits

The installation of the wagon has first and foremost eliminated the need for Hydra entirely, thus, reducing the daily consumption of diesel by 10-15 Litres/day. In a day, the crane made 75 lifts of the primed items to painting area, covering a total of 7500 m a day; the project has decreased the wear and tear of the crane. The wagon has also helped minimize the time taken to move the material to the painting area and the total cost of material handling. It has also helped improve floor space utilization and safety in material handling. Additionally, the minimization of transportation has benefited the quality and the productivity rate of the painting activity.



Electrically Driven Wagon

