

CUSTOMER FOCUS PERSONIFIED

Abstract

JSW Steel's re-roofing project came with more challenges than cited. The game was to seek opportunity in every difficulty. Team TBSL left no stone unturned, thinking alternate at all perilous junctures.

Read on...

Project Name: JSW Steel	Building Usage: Cold Roll Mill (CRM)
Location: Bellary, Karnataka	Solution: Double Framing and Roofing with LYSAGHT KLIPOK® 700
Scope of Work	Retrofitting solution on roof above roof. Supply and Installation of LYSAGHT KLIPOK®700 Roofing profile in running plant to provide 100% leak-proof solution
Area of Roof Covered	14,500 Square meter Area
Key Differentiators	100% leak-proof solution & Express Delivery inspite of all odds


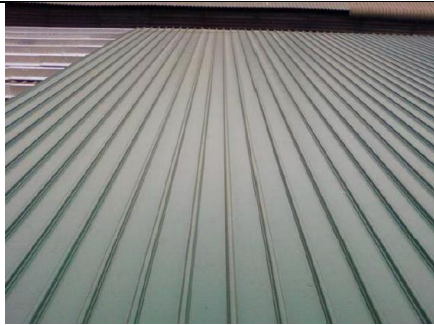
INTRODUCTION:



JSW Steel's CRM, India's largest Auto grade steel plant, required an urgent re-roofing as they were facing acute problem of water ingress through crevices on existing roofs. The plant caters to the Auto industry in India and some of the best global car makers use their CRM II products. With an upgraded capacity of 5 MTPA, this plant is unstoppable and is the first steel plant to have installed a continuous pickling/annealing line in India.

In a highly critical environment, where unceasing cold and hot rolled coils are manufactured, stopping the plant would have incurred tremendous losses due to capacity wastage. It was imperative for JSW Steel to have had an expert who would provide solution without hindering its ongoing business!

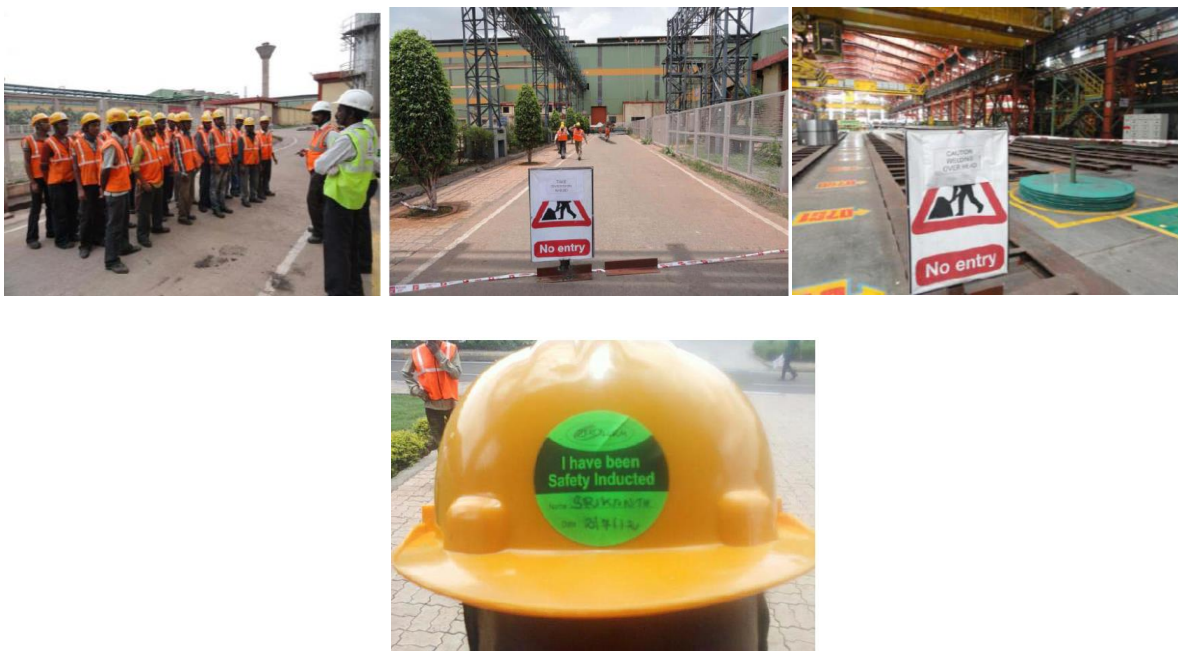
Job work mainly involved a crucial task of re-roofing their largest CRM mills, without stopping the work!

CHALLENGES VERSUS SOLUTIONS:

	Challenges	Solutions
	<p>Uneven Undulations in Roof: The existing roof had undulations up to 800mm. We had to fix them and use the new roof on existing system. Hence the first challenge was to correct these undulations in order to get the desired roof slope and alignment.</p>	<p>Welding of Purlin cleats on existing rafters: To correct the undulations specially designed Cleats of 0.535 meter length were used. These cleats were then welded on the existing rafters. Welding sparks were addressed by using asbestos cloth. Welding of 0.2 meter L-angles with 0.535 meter purlin cleat was done, to align the rafter undulation & to maintain purlin level.</p>
	<p>Roof Leakage: Roof leakages were there at many places in the building. The existing roof had uneven slopes and surfaces. A single drop of water on the cold rolled steel being manufactured in the plant</p>	<p>Conceal fixed LYSAGHT KLIP-LOK®700 profile was supplied and installed with single length of 19 meter from ridge to eave to provide 100% leak proof solution. Onsite roll forming solution addressed the challenge of long length of 19</p>

	<p>would lead to rejection of the entire lot leading to heavy losses.</p>	<p>meter. Quality workmanship has ensured the lifting of long length sheet to 33 meter height and meticulous installation to meet the leak proof objective.</p>
	<p>Safety: Due to deep undulation and 33 meter height of building created a big safety challenge for workers working at roof of building. Carbon monoxide emission was also a major hurdle during roof work.</p>	<p>Safety Net was harnessed during running plant to avoid the fall. CO Monitor was placed on the roofing area to check the CO leakage at all times. In case reading of CO meter went above specify limit, workers were not allowed to work on the roof.</p>
	<p>On Time Project Completion: On time project completion was a major challenge keeping view of onsite roll forming, undulation removal, Installation of conceal fixed system.</p>	<p>Project was completed in time by making express delivery, sheet installation by skilled manpower and extra efforts by TBSL team to complete entire project in time.</p>

SAFETY MEASURES:



CONCLUSION:

The project required a concealed roofing solution for CRM mill without disturbing the working of the plant overcoming all the challenges within the stipulated time frame. Our LYSAGHT KLIP LOK® 700 profile was perfect roofing solution for this, coupled with our excellent project management capabilities. 100% leak proof re-roofing with express delivery was our key differentiator that ensured customer delight. Customer focus and a will to address all adversities with alternate-thinking-solutions, this project was a huge success and was applauded by the client.

CUSTOMER VERBATIM:

“The supply and installation job including the design and engineering, awarded to Tata BlueScope Steel Limited has been executed successfully to our satisfaction. We appreciate the efforts made by TBSL construction team in meeting our quality and safety expectations during site execution activity.”

V.V.L.B RAO

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JSW Steel