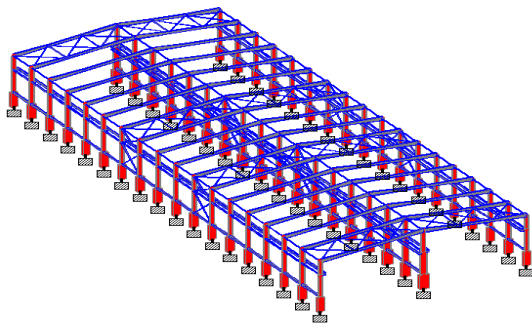
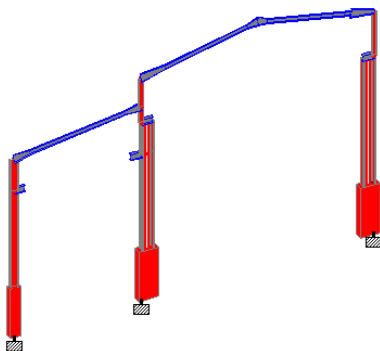


Shikhara Steels Factory Expansion



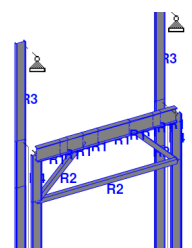
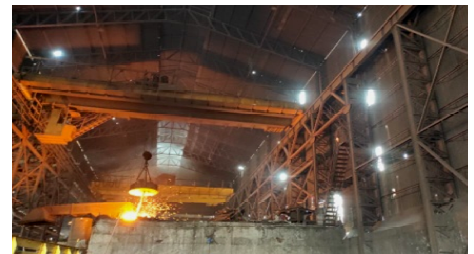
M/s Shikhara Steels Pvt. Ltd. engaged SIE for modification, strengthening and expansion of their facility. Scope includes Structural designs for

- Existing facility Crane Beam Strengthening for the revised EOT capacity of 60T. Strengthening is provided by additional bracing supports and tie beam. Also lateral restrains in plan are also provided to prevent lateral buckling.



- Civil and Structural designs for Induction Furnace Shed expansion of size 120m x 35.5m. It consists of two parts, one being 12m wide carries a EOT crane of 15 Tons capacity, whilst other part has 60Tons capacity EOT crane.
 - Main column consist of SC1 & SC2 .SC1 column has twin column of ISMB400 laced together to carry EOT crane of 60T.One of the twin Column acts as crane leg column & other supporting the roof structure .Rafter member typically consist of ISMB400 provided with haunch stiffener and Ridge Stiffener.
 - Crane runway beam has a span of 6m .Builtup section of 1000 deep x 300 wide and the top flange is strengthened with ISMC400
- Civil and Structural designs for Cooling Bed Shed 102m x 40m utilised in two parts each part carry a EOT crane of 15 Tons.
 - Crane runway beam has a span of 6m. Built-up section of 550 deep x 250 wide and the top flange is strengthened with ISMC350 .
 - Rafter member consists of varying depths from 400 to 800mm.

- SBC adopted 270KPa based on the Soil investigation report. Wind speed 44m/sec and Seismic Zone-2 considered in Structural designs.
- M25 Grade is used for concrete and Fe500 for steel is used.
- Steel Portal frame is adopted for shed of spacing 6m c/c for both IFS & CBS.



Date : 2022 - 2023

Client: M/s Shikhara Steels Pvt. Ltd .

Type: RCC & Steel.

Firm's Responsibilities: Structural Designs ,Drawings and Estimation