

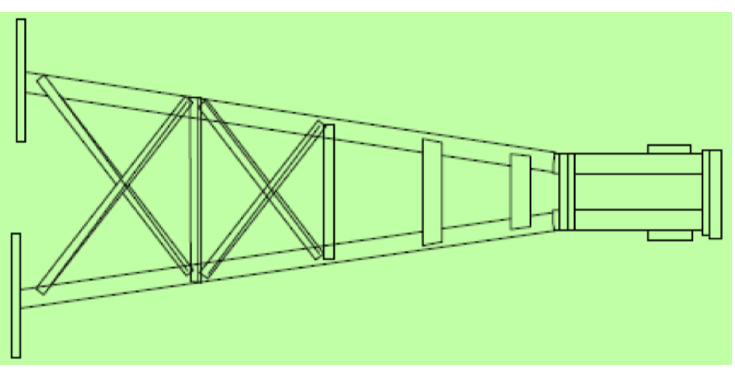
Bongaigaon, Assam, India.

Flash Butt Welding Plant Gantry Structure



SIE Scope consists of Structural design verification of Gantry of the welding plant.

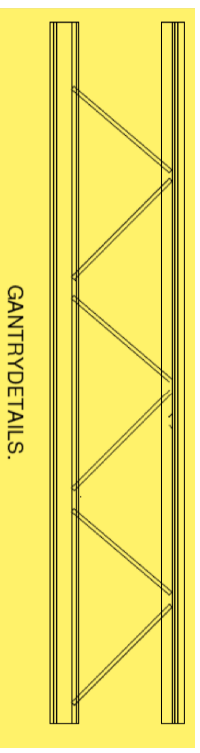
Gantry is of 31.34 m span and consists of built-up truss of 500 wide x 830mm deep consists of ISMC, ISMB, ISA and Steel plates. Hoist capacity 1.2T. Gantry is connected by welding to Column Stanchions which consists of twin ISMB braced by ISA and Steel plates. These columns are founded on Mass concrete Foundations based at 2m depth from Ground level.



Structural adequacy is checked through Hand calculations first and then Staad model is created. Chords of Gantry Truss are modelled with equivalent members to simulate the built-up truss. Horizontal load is applied to cater for breaking force or zone-5 seismic forces.

Utilization Ratios and Deflection of gantry is checked with the code acceptable limits.

M25 Grade of Concrete and 250 grade Structural Steel is used.



Date: 2018

Client: M/s Patil SMH JV Pvt. Ltd.,

Type: RCC and Structural Steel

Responsibilities: Structural Design Verification

