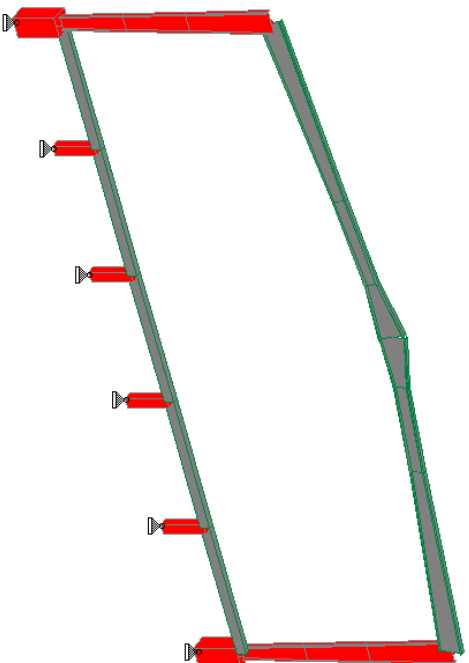


Heat Treatment / Bottling Plant Facilities at OFC, Kanpur



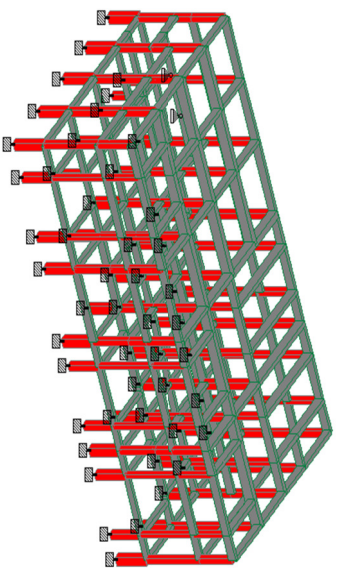
Structure is designed for Zone-3 seismic loading. Piled foundations are adopted as sub-strata is silty-clay.

Stability of Bottling Plant steel structure is achieved by Steel portal frames in one direction and braced bays in another direction. Frames are supported over RC Pedestals tied with Plinth Beams over Piled Foundations. Plant is 10m height in which 6.0m is block wall and rest is cladded with steel sheeting. RCC tie-beams are provided to restrain the Block wall laterally, which in-turn connected to main steel structure.

Sub-station is a R.C. Framed in both directions. R.C. Columns will be supported over Pedestals tied with Plinth beams over Piled Foundations.

SIE scope includes providing a safe structural design consisting:

- PEB Structure for Bottling plan of approximately 70m long x 30m wide x 10m high. No Crane facility exists.
- RCC Structure for Sub-Station of approximately 30m long x 16m wide x 6.0m high.



Date: 2015

Client: Chief Engineer (Factories), M.E.S.

Firm's Responsibilities: Structural Design

Type: Reinforced Concrete & Structural Steel