

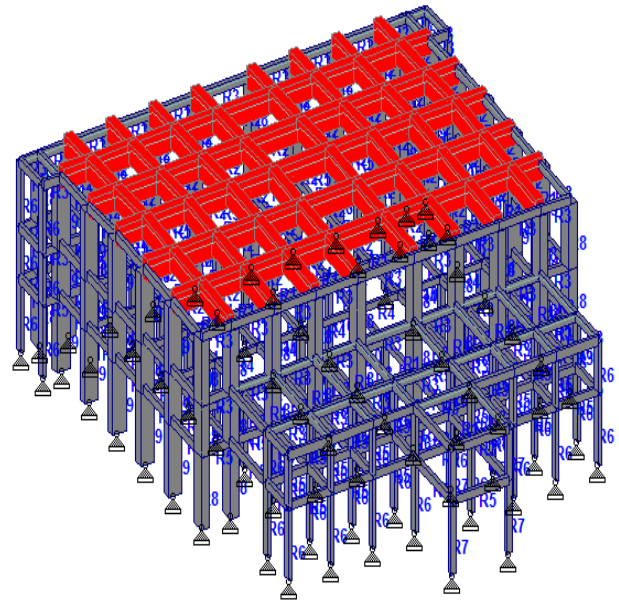


The Project 'Provision of Deficient Gymnasium at INS Kalinga, Bheemunipatnam' consists of RCC single storey Building of 36x33.8m in plan. Height of the building is 8m approx.

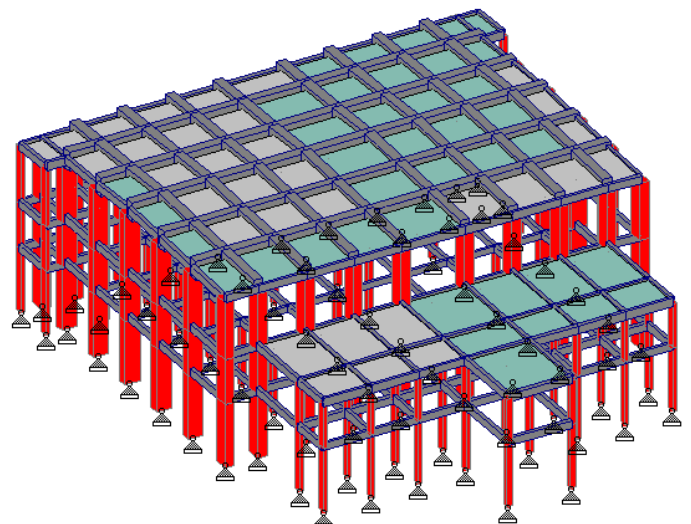
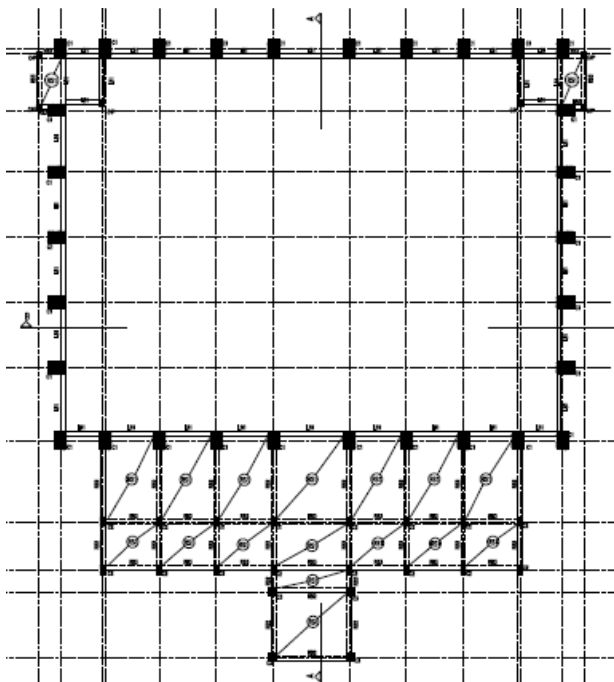
Entry area to Gym consists of Dressing Rooms, Instructors Rooms, Stores etc.,

SIE scope includes Structural Designing, Drawings and Construction advice.

- Column free space area of 26mx33m exists for the Gym area. Hence a grid pattern beams are adopted.
- Primary Column size is 750x1200 whilst Beam size is 750x1500 to provide adequate bending resistance for the given large spans and height of the building.



- Since spans being long, Steel Roof Structure option is studied; however RCC Roof is chosen from Architectural and Client requirements. Primary Beam size considered as 750x1500mm in grid pattern and is checked for deflection.
- Though Project is located in Low Seismic zone, Wind Speeds are higher being Coastal area. The Structure is designed for Seismic Zone-2 to IS:1893 and Wind Speeds of 50m/sec with Cyclonic Factor.



Date: 2018

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

Type: RCC Structure

Responsibilities: Structural Designs & Drawings.