

Visakhapatnam, Andhra Pradesh, India

Provision of Deficient In Living Accommodation for Sailors at Indian Naval Shipyard Virabahu.

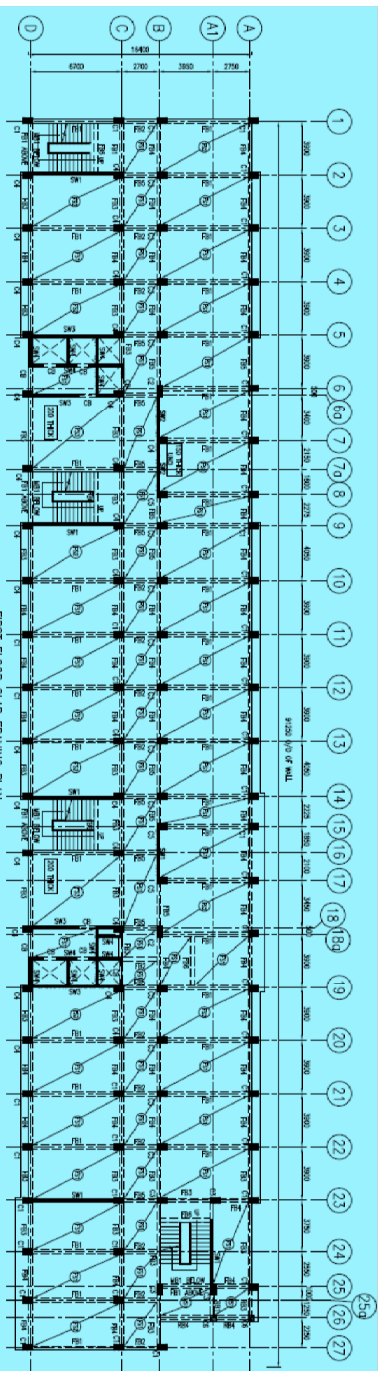
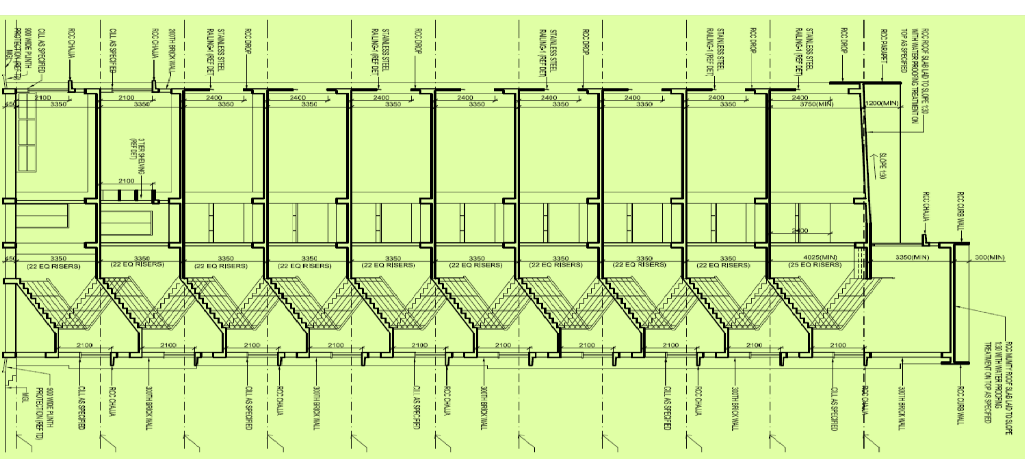
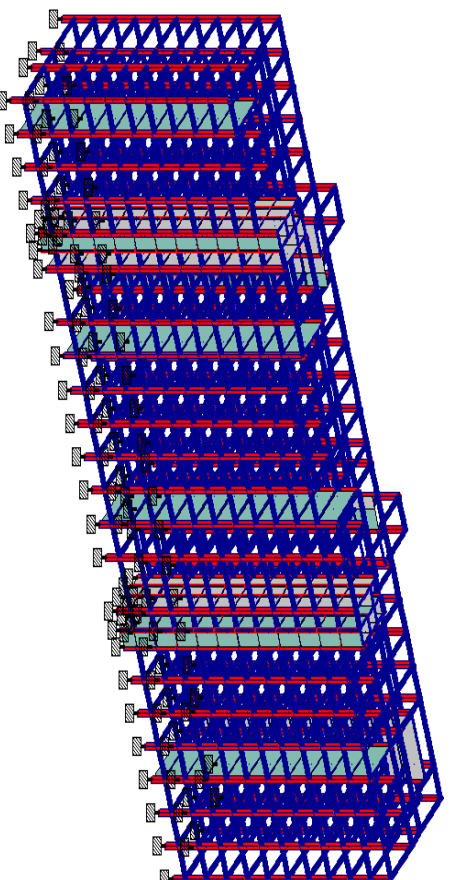


SLE scope includes Structural designs for the proposed G+9 Storey Accommodation building for Sailors.

Facility consists of Parking, Kitchen, Laundry, Stores, Dining, Common and Study Rooms apart from Accommodation units for Sailors. Also MI Room, Parking Shed and UG Sump are part of this project.

Building being 92m length, provision of movement joints is studied. Seismic Separation between the parts works out to 100mm. Since maintenance of such a wide joint is difficult and further affecting architecturally, movement joints are deleted.

Hence structure is analyzed as a single building duly accounting thermal stresses. Additional reinforcement is provided in floor beams and Slabs to resist the axial stresses due to thermal changes and cracking.



Date: 2021

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

Type: RCC Structure.

Firm's Responsibilities: Structural Designs and Drawings.

Shear walls are provided which helped in limiting overall building displacements under lateral loads. Also minimised the column & beam sizes /reinforcements.

Geo-Tech Report indicated loose/clay soils hence Piles of 450Ø, provided. Combined Pilecaps/Mat supported over these Piles is chosen as Foundation system .