Hyderabad, Telangana, India

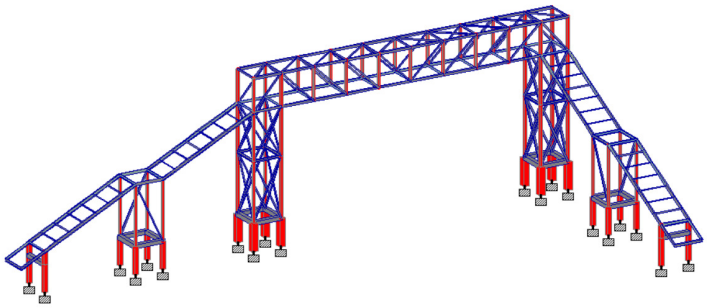
Foot Over Bridge at Cadet Training Wing, MCEME

SIE scope includes Architectural and Structural designs for the proposed Footover bridge apart from Field Studies Survey & Soil Investigation.

- The bridge serves the purpose of movement of Military Cadets over the Civilian Area Road. Access to the bridge is provided by Staircase on either side. Bridge Span is 20m with clear height of 7.9m and width of 2.1m.
- SBC Considered is 200KPa at 2.5m depth from existing ground level as per geotechnical report.

- Designed for Imposed Loading due to pedestrian traffic of 5kPa, Seismic Zone-2 and wind loading corresponding to basic wind speed of 44m/sec with design life of 100yrs.
- Bridge is of Pratt Truss type Steel Structure supported over 4 nos. Steel columns on each side which are braced in either direction. Chosen structural concept met the requirement of Project namely a safe, stable and economical option.

- Braced Steel columns are supported over RC Pedestals over Mat Foundations. Tubular sections are adopted for Chords and Bracings.
- Structure is analyzed and designed to I.S. Codes of practice.
- Concrete of M25 Grade and Reinforcement grade of Fe500D are adopted throughout for RCC Foundations.
- MS Hand Rail on both sides of walkway and Galalume Roofing has been provided for the pedestrian comfort.



Date: 2022 - 2024.

Client: Garrison Engineer (MCEME)/ M.E.S.

Type: Concrete & Structural Steel

Firm's Responsibilities: Architectural ,Structural Drawings & Designs, Survey and Soil Investigation.