

Parametric Analysis of Elevated Service Reservoir (ESR) For Various Capacities

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Abstract: *Elevated reinforced concrete water tanks are an important structural element in both urban and rural regions. It's critical to keep the high reinforced concrete water tank from collapsing in order to keep the water supply running. A reinforced concrete elevated water tank of capacities 56, 191, and 452 cubic meters with a constant h/d ratio is designed and put through various parametric analysis such as displacement, bending moment, and base shear in two different seismic zones i.e., zone III and zone V using STAAD pro. and the results are reported.*

Keywords: STAAD Pro. Software, Circular Overhead Water Tank, Elevated Water Tank

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