

**DESIGN OF A WATER TOWER  
IN STEEL**

**by**

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**Project Report**

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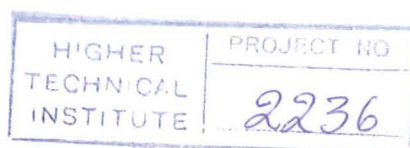
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## S u m m a r y

The main objective of this project is to design a Water Tower in Steel for potable water.

The Water Tower will be constructed to act as a water reservoir, in a water supply system. The size of the tank depends on the capacity of water to be stored.

The cost of Water Tower depends mainly on its shape and on the type of structural material that is going to be used. In this project the Water Tower is made of Mild Steel, Grade 43.

The choice of the shape was done, taking into account the dimensions and properties of British Standard Sections in combination with other factors such as safety, economy and standard-size steel units available in the market.

The design comprises a square water tank  $8.4 \times 8.4 \times 2.4$  m, supported by a 15 m Tower.

Analytical design, construction drawings and connection details are prepared in this project. Provision of Access of the Tank and Maintenance of the Structure are mentioned.

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