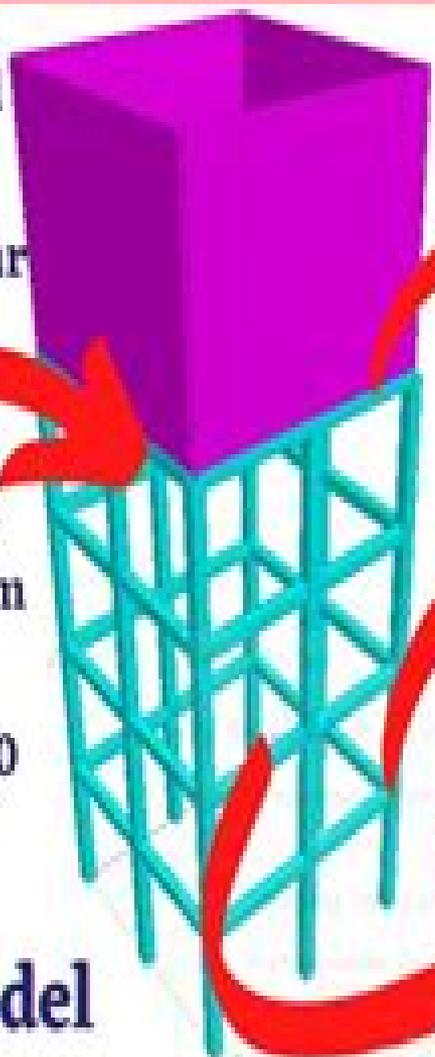


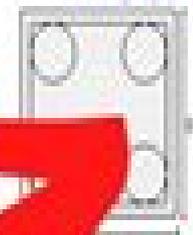
## Full Rectangular water tank Design

Utility : Residential  
Height staging : 12m  
Type : Rectangular  
Concrete Grade : M30  
Steel grade : Fe415  
Column : 0.3m X 0.3m  
Beams : 0.3m X 0.23m  
Slab : 150mm  
Code : IS -456-2000

**Tank data**  
**Water Tank model**



### Beams Design



Design Load		Design Parameters	
Load	1	Factor	1.5
Location	End 1	Factor	1.5
Section	230/300	As Required	1.5
Reinforcement	1.5	As Req.	1.5
Reinforcement	1.5	Reinforcement	1.5
		Reinforcement	1.5

### Column Design

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**Steve Meier, American Water Works Association**



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**Advances in Civil Engineering: Sustainable and Cost-Effective Approaches** Sanjay Kumar Shukla, Sumit Kumar, Jitu Kujur, 2026-01-01 This book presents select proceedings of the International Conference on Research and Innovation for Sustainability in Civil Engineering RISCE 2024 It highlights recent advances in civil engineering with a strong emphasis on sustainable and cost effective practices The contributions address key challenges related to environmental concerns such as climate change and global warming Covered topics include green building design innovative and sustainable construction materials efficient resource and project management eco friendly transportation systems water resources management and the development of resilient and smart infrastructure This volume serves as a valuable reference for researchers professionals and decision makers engaged in promoting sustainability in civil engineering *International Conference on Sustainable Planning, Architecture and Civil Engineering (SPACE 2026)* Prof. H.K. Sharma, Dr. Jitendra Singh Yadav, Dr. Pankaj Munjal, Dr. Amit Kumar Jaglan, 2026-01-21 This book presents the proceedings of the International Conference on Sustainable Planning Architecture and Civil Engineering SPACE 2026 hosted by the National Institute of Technology Kurukshetra In an era of rapid urbanization and climate change building resilient and sustainable infrastructure has become an urgent global imperative This volume addresses that need offering a vital platform for interdisciplinary dialogue among researchers architects engineers and policymakers Focusing on the integration of sustainability across the entire lifecycle of the built environment the compendium explores innovative theories and practical applications Key themes include sustainable architecture smart infrastructure energy efficient technologies water management and the use of advanced digital tools like AI IoT and GIS Featuring rigorously peer reviewed research papers organized into thematic sections this publication serves as a valuable reference for academics and professionals It aims to stimulate further innovation and collaboration providing actionable insights for developing the sustainable resilient cities of the future The collective knowledge within these pages contributes meaningfully to the global pursuit of balanced and inclusive growth

**Proceedings of the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering—Volume 2** Shamsher Bahadur Singh, Muthukumar Gopalarathnam, Nishant Roy, 2025-08-02 This book consists of selected papers presented at the 3rd International Conference on Advances in Concrete Structural and Geotechnical Engineering ACSGE 2024 held at BITS Pilani India The papers represent the latest research work in the fields of advanced composite materials advanced computational techniques for structures applications of nanotechnology in civil engineering bridge engineering composite structures concrete technology the fatigue life of structures fire resistant structures functionally graded materials and structures geotechnical processes ground improvement techniques offshore structures performance based design of structures pre cast pre stressed concrete structures seismic design and construction soil structure interaction structural health assessment and rehabilitation sustainability of construction design and management

The papers are presented by an international pool of academics research scientists and industrial experts and therefore cater to the global audience from the fields of construction materials design guidelines geotechnical engineering concrete infrastructures and structural engineering This book is part of a 3 volume series of these conference proceedings and it represents Volume 2 in the series

**Design of Water Tank** , Storage reservoirs and overhead tank are used to store water liquid petroleum petroleum products and similar liquids The force analysis of the reservoirs or tanks is about the same irrespective of the chemical nature of the product All tanks are designed as crack free structures to eliminate any leakage This project gives in brief the theory behind the design of liquid retaining structure circular water tank with flexible and rigid base and rectangular under ground water tank using working stress method This report also includes computer subroutines to analyze and design circular water tank with flexible and rigid base and rectangular under ground water tank The program has been written as Macros in Microsoft Excel using Visual Basic programming language In the end the programs are validated with the results of manual calculation given in Concrete Structure book

*Design of an Elevated Water Tank* W. McAuliffe,1909

**Steel Water Storage Tanks: Design, Construction, Maintenance, and Repair** Steve Meier,American Water Works Association,2010-04-05 The first comprehensive steel tanks book published in more than a decade Developed by members of the American Water Works Association AWWA General Steel Tank Committee Steel Water Storage Tanks Design Construction Maintenance and Repair is the most authoritative source of industry information available This in depth reference describes the use of steel tanks for potable water storage and includes details on tank sizes capabilities styles construction appurtenances site selection design operation maintenance rehabilitation inspection and security Complete coverage of Tank history typical configurations locating sizing and selecting Selecting and specifying appurtenances Controlling corrosion Contractual considerations Foundations Construction of welded steel water storage tanks Construction of bolted steel water storage tanks Operation Inspecting new tank construction Maintenance inspection and repair Potable water security Tank rehabilitation

**Design, Analysis, and Optimization of a Rectangular Tank** Jihad K. Al-Soudi,1996

The Design of an Elevated Water Tank Victor Severs,1927

**A Design for an Elevated Water-tank** Leroy D. Peavey,1898

Design for a Reinforced Concrete Water-tank Abder-Rahman E. Gorayib,1914

*Design for a Reinforced Concrete Water Tank and Tower* C. H. Lovejoy,1910

**Water Tank Design** Emile Nemeh Klat,1945

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**The Design of a Rectangular Elevated Reinforced Concrete Tank** Peter E. Jervis,1983

*Steel Water Storage Tanks* Stephen W. Meier, Study and Design of Fixed Roof Tank Using ANSYS 14.5 and STAAD PRO Nourhaine Yousfi,Rebh Souilmi,2015

**Spherical Concrete Water Tank Design** Steven James Hoggan,1982

**Design of a Cylindrical Steel Tank Using Robot Software** Georges Bou-Nassif,Paul Michael,2013

**Domestic Water Tank Manufacturers Council Standards for the Materials, Design, and Construction of Certified Hydropneumatic Tanks** Domestic Water Tank Manufacturers Council,19??

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