

Dhiraj Wakode

Structural Design Engineer

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Phone: +919860316558

Expertise

- Design of Steel Structures
- Design of modular Pipe racks
- Design of pile foundations
- Design of equipment foundations

Design Codes:

- ACI-318, ASCE-07, AISC, IS-800, IS 456

Software Skills:

- RISA 3D,
- Risa Foundation,
- Staad Pro.,
- RAM Connection,
- Mat 3D,
- Foundation 3D
- Matlab

Education

- ME Structures, BITS Pilani, 2014
- B Tech Civil, VJTI, Mumbai University, 2010

Organizations

- Burns and McDonnell Engineering India Pvt Ltd.
- Afcons Infrastructure Ltd., Mumbai
- Larsen and Toubro Ltd., Mumbai

Total Years of Experience

5 years 0 months

Profile

Dhiraj Wakode is a postgraduate Structural Engineer with five years of industry experience in design of Equipment Structures, Pipe racks, Equipment and Machine Foundations, Underground Liquid retaining tanks for hydrocarbon projects as well as enabling works for oil and gas and marine projects. He also has Proposals experience from oil and gas and marine projects that includes calculation and verification of Quantities for Breakwaters, RCC Buildings, Loading and unloading facilities.

Career History

Organization : Burns and McDonnell Engineering India Pvt. Ltd (Oct 2014 – Present)

Designation : Structural Engineer

Borregaard Lignotech, Florida, USA

- Design of steel structure that comprises of a modular pipe rack and stick built reactor platform supporting equipment using RISA 3D
- Lifting and shipping analysis of modular pipe racks

Motiva Norco Proposals Project, Norco, USA

- Design of Steel structure comprising of an Equipment Structure and pipe rack for estimation of steel MTO
- Design of combined pile foundation supporting pipe rack, equipment structure and vessels using RISA foundation for estimation of concrete quantity
- Design of isolated equipment foundation using Mat 3D

CPV Valley Combined Cycle Power Plant, New York, USA

- Design of a part of pile foundation supporting powerhouse building spanning about 600 ft by 300 ft in plan using RISA Foundation
- Coordination with US counterpart for preparation of drawings and design calculation

Jumbo BOP, Corpus Christi, USA

- Design of pipe racks using Staad Pro
- Design of pipe rack foundations using RISA Foundation

Valero Alkylation Project, Houston, USA

- Design of foundations for vertical, horizontal and Pressure vessels for Estimation

Vacuum Improvement Project-Phillips 66 Refinery, Montana, USA

- Design of Pipe racks using RISA 3D
- Design of pipe rack foundations using RISA Foundation
- Design of Foundation for Miscellaneous units such as Chemical Injection unit, and Transformers
- Design of Substation building Steel Supporting Cable Trays and Foundation
- Design of Miscellaneous cable tray supports on grade

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Personal Details

- Address:
B-301, Mansarovar Park,
Gauripada , Kalyan
Maharashtra- 421301
- Date of Birth:
8th Feb 1989

Bradley 2 Gas Plant, Oklahoma, USA

- Design of foundations for Vertical and horizontal tanks and Pressure vessels using Foundation 3D and Mat 3D
- Design of block foundations for pumps

Organization : Afcons Infrastructure Ltd. (May 2014 – Oct 2014)

Designation : Structural Engineer

Suai Supply Base Project Proposal, Timor Leste

- Design of enabling works and temporary structures such as Working Platforms, Approach trestles, Loading and Unloading Platform supporting structures.
- Review of consultant design for fuel loading and unloading facilities
- Review of BOQ for various buildings in the project
- Review of consultant design basis
- Design of Load out facility for construction materials

Construction of LNG Tanks for Petronet Dahej Plant, Gujarat (India)

- Design of foundations for Tower Crane, Batching Plant and Cement Silos
- Review of consultants' drawings and designs as per employers requirements

Organization : Larsen and Toubro Ltd.(July-2010 To July-2012)

Designation : Executive Engineer

Gujarat Narmada Valley Fertilizer Company Plant, Gujarat, India

- Review of consultants' drawings and designs as per employers requirements
- Design of Ringwall and Octagonal Foundations for various static equipment like tank and filter as per ' Indian Standards' and ' Process Industry Practices'
- Design of foundations for rotary equipment like Pumps and Blowers as per ' Indian standards'
- Designed an underground RCC Liquid retaining tank
- Design of T-Post pipe racks spanning about fifty meters using Staad Pro software
- Preparation of SOP Checklist for Vendor Document review and Design Drawing Review

10 MW Concentrated Solar Power Project Proposal, Rajasthan, India

- Study of ITB Documents to raise queries regarding civil and structural scope of work