

SONU DHARWAL

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BRIEF OVERVIEW

Having vast experience of around 8+ years in the fields of Steel Structural Designing and Drafting with Top organization with experienced Civil & structural Engineers, I have been extensively utilizing my skills to successfully achieve my goals assigned to me in the field of Civil/ Structural Engineering.

CAREER GOAL

My career goal is to achieve professional excellence in my work through a process of learning in combination with experience. I wish to contribute vision, leadership conceptual and technical skills to my organization and derive a sense of an accomplishment in my endeavors.

SUMMARY

Total 8 years 10 months of experience in AutoCAD, Micro-station, Smart Sketch including 3D experience in Smart Plant 3D (SP3D) & Tekla structures (X-steel 13.0, 13.1, 14.0, 16.0 & 17.0).

Little experience in PDS (Beginner)

Professional Experience Summary

- ❖ Good Knowledge of Auto CAD 2000 to 2012 & Auto CAD-3D.
- ❖ Good Knowledge of steel structure **Tekla** (10.2, 11.2, 12.1, 13.0, 14.1, 15.0 & 16.0)
- ❖ Good Knowledge of Microstation (v7i & v8i).
- ❖ Good Knowledge of Smart Plant Software (SP3D).
- ❖ Knowledge of PDS (framework) (Beginner).

EDUCATION

12th Class in Science Stream From HPBSE in 2002.

B.Sc (PHY., CHEM. & MATH.) From H.P. University (SHIMLA) in 2006.

Diploma in Civil Engineering From Institution Of Civil Engineers (INDIA) Ludhiana.

PROFESSIONAL EXPERIENCE

WS Atkins & partners Overseas, Sharjah
Civil/Structural Designer

1 Mar2015 - Till date

- ❖ **Project: Master Gas Compression Station 3 & 5 – Yanbu, Saudi Arabia, Client Saudi Aramco.**

This is the **EPC** project. The project site is located in region of Yanbu and name of the project is Master Gas compression station 3 & 5, Saudi Arabia . The client of this project is Saudi Aramco.

Role & Responsibility:

3D modeling of (Structures like Foundation, concrete pipe rack, steel pipe rack, Module structure, pipe supports structure, shed, vessel support structure, cooling tank, Stair tower etc...) using **SP3D & Smart Sketch software**.

Preparation of drawing in **Micro Station** and **Smart Sketch**, which includes the foundation of the horizontal & vertical vessels, foundation of exchanger, vertical & horizontal equipment, pipe rack, transformer foundation. Also involve to prepare the cooler structure, pipe rack, equipment platform etc...

Preparation & checking of civil & structural drawings.

Checking & resolve clash of steel structural with piping model.

Extraction & checking of material takeoff reports from model as well as preparation of MTO manually for concrete & steel.

Involved in internal model review with other discipline team

Co-ordinate with engineers & also other disciplines like electrical & Instrumentation, plant design etc..

CB&I India Pvt. Ltd. Gurgaon

21Apr.2014 - 28 Feb 2015

Civil/Structural Designer

❖ **Project: ELBA LIQUIFACTION PROJECT – LNG ELBA ISLAND FACILITY SAVANNAH GEORGIA**

This is the **FEED** project. The project site is located in an island name ELBA which is in between the Savannah river, state Georgia United States . The client of this project is Kinder Morgan & Shell.

Role & Responsibility:

3D modeling of (Structures like Foundation, concrete pipe rack, steel pipe rack, Module structure, pipe supports structure, shed, vessel support structure, cooling tank, Stair tower etc...) using **PDS & AutoCad software.**

Preparation of Modular movable liquefaction system drawing, which includes the foundation of the horizontal & vertical vessels, foundation of exchanger, vertical & horizontal equipment, pipe rack, transformer foundation. Also involve to prepare the cooler structure, pipe rack, equipment platform etc...

Involve to prepare MTO for concrete foundation & structures by calculating it manually.

Preparation & checking of civil & structural drawings for FEED Deliverables.

Extraction & checking of material takeoff reports from model as well as preparation of MTO manually for concrete & steel

❖ **Project: PAPUA NEW GUYANA - LNG PROJECT (UPSTREAM OIL & GAS EXPLORATION PROJECT**

This is one of the single biggest industrial investments in tha PAPUA NEW GUYANA. The client of this project is EXXON MOBIL.

Role & Responsibility:

3D modeling of (Structures like Structure, pipe rack, Module structure, pipe supports structure & other structure like shed, vessel support structure, cooling tank, duct supports, Stair tower, Elevator structure etc...) using Smart Sketch (SP3D) & Microstation software.

Preparation & checking of civil & structural drawings.

Checking & resolve clash of steel structural with piping model.

Extraction & checking of material takeoff reports from model as well as preparation of MTO manually for concrete & steel

Fluor Danial India Pvt. Ltd. Gurgaon

Oct. 2013 - 18Apr.2014

Civil/Structural Designer

❖ **Project: KAZAKH PROJECTS JOINT VENTURE LIMITED (PJV) Future Growth Project (Pertochemical Refinery)**

This is one of the single biggest industrial investments in tha Republic of Kazakhstan. The client of this project is TENGIZCHEVROIL.

Role & Responsibility:

3D modeling of (Structures like Structure, pipe rack, Module structure, pipe supports structure & other structure like shed, vessel support structure, cooling tank, duct supports, Stair tower, Elevator structure etc...) using **Smart Sketch (SP3D) & Microstation software.**

Preparation & checking of civil & structural drawings.

Checking & resolve clash of steel structural with piping model.

Extraction & checking of material takeoff reports from model as well as preparation of MTO manually for concrete & steel.

Involved in internal model review with other discipline team

Co-ordinate with engineers & also other disciplines like electrical, plant design.

Bechtel India Ltd. Gurgaon

Feb. 2011 – Sept. 2013

Structural Detailer/Designer

❖ **Project: Kitimat Modernization Project (Alumina Refinery)**

The A\$3.5 billion expansion is one of the single biggest industrial investments in the state of British Columbia's South-West region at site Kitimat. It will lift Rio-Tinto Alcan's annual alumina production from 3.5 to 4.6 million tonnes per annum and provide opportunities to improve the energy and water Efficiency of the operation.

Role & Responsibility:

3D modeling of (Structures like Anode Baking Furnace, Potrooms in which reduction of alumina pellets takes place, Cast House, Anode Handling & Green Baked Storage Structures, Cooling Water, Compressed Air System Structure, Wintriage passage Structure, pipe rack, pipe supports structure & other structure like shed, cooling tank, coarse seed building, duct supports, Stair tower, Elevator structure etc...) using **Tekla structures**

Preparation & checking of structural erection drawings

Checking & resolve clash of steel structural with piping model.

Extraction & checking of reports from model

Involved in internal model review with designing team

Co-ordinate with engineers, detailing team & also other disciplines like electrical, plant design.

❖ **Project: Ivanpah Solar Electric Generating facility, California.**

Ivanpah Solar Electric Generating facility Campus is a 2 X 400 MW supercritical solar heliostat hotted power plant located in Manhattan, New York in USA. Located in high seismic zone, involves a lot of engineering and detailing. Power plant having three units each one have steam turbine tower which collect the solar energy from heliostat that is taken from sun, Heater Bay building & HRSG unit building is one of its kinds with huge columns and huge connections which involve a lot of detailing. Structure amounted to 11,000 tonnes.

Role & Responsibility:

3D modeling of (turbine tower building, boiler building & other small structure like transformer support, circulating Water pipe support, caustic acid pump shed, Stair tower, Elevator, pipe support structure etc...) using **Tekla structure**

Preparation & checking of structural erection drawings

Checking & resolve clash of steel structural with piping model.

Extraction & checking of reports from model

Co-ordinate with engineers, detailing team & also other disciplines

Structure Online Pvt. Ltd. Noida

July 2006 – Feb. 2011

Senior Structural Designer

❖ **Project: Mariposa (land port of entry)**

The Mariposa Land Port of Entry is one of the busiest land ports in the United States. It serves as the main port of entry for fresh produce entering the United States from Mexico and the primary produce distribution point on the southern border,

Total Cost of Construction: \$213 million

The project consists of the demolition and new construction of all facilities within the land port of entry. This includes primary and secondary inspection areas for both commercial and non-commercial vehicles, a new administration building, a pedestrian-processing facility, a new canine kennel, and other support structures. In addition, new southbound export processing docks and inspection areas will be sized to allow for future export inspection protocols when these programs become effective. Approximately 13 acres adjacent to the port were acquired to accommodate the expansion.

All type of Drawing and Estimating on USA Based Project Handling & CAD Designing related jobs & Solid Builder Software

Checking & editing of 2D-3D modules & working drawings on United States of America based projects
Modeling in Tekla structures.

PROJECTS HANDLED (S&H Steel & Alling Iron Works California)

- ❖ Folsom Lake College Visual & Performing Arts Center, Sacramento California 95833.
- ❖ The Ritz Carlton Hotel & Spa at Dove Mountain, Marana, Arizona.
- ❖ H. Allen Hight Learning Center, Unified School District North Park Drive, Sacramento, California.
- ❖ New Florence High School, Florence Unified School District 350 South Main, Florence Arizona.
- ❖ Vincent L. Triggs Elementary School, XXXX W. Rome Boulevard, North Las Vegas, Nevada 89084.
- ❖ The Legacy at Willow Bend, Texas.
- ❖ Venture Court, Professional Plaza 41810 N. Venture Drive, Anthem , Arizona 85086.
- ❖ Adelanto High School, Victor Valley Union High School District, Ontario, California 91762.
- ❖ Sunrise Senior Living of Gilbert, 580 S. Gilbert Road, Gilbert Arizona.
- ❖ Goodyear Spring Training Ballpark, City of Goodyear Arizona.
- ❖ Clark County Fire Station No. 20 & 22, Las Vegas Nevada.

Other project (MMI, skyline & technip)

Role & Responsibility:

3D modeling of commercial building like building, stair, ladder, handrail, canopy, joist, deck supports, etc...) using Tekla structure

Preparation & checking of structural erection drawings

Extraction & checking of reports from model, Involved in internal model review, Co-ordinate, detailing

INTERESTS AND ACTIVITIES

- ❖ Playing Cricket & Listening music.
- ❖ Interest in reading books, travelling & driving.
- ❖ Interested in Research & development in related software.

STRENGTHS

- ❖ Hard working with in-depth understanding of all Architectural /Structural functions.

❖ Can with stand work pressures and meet deadlines.

PERSONAL DETAILS

Father Name: Mr. Bikram Ram Dharwal, Date of Birth: **30 June, 1984**, Languages Known: English, Hindi & Punjabi
Marital Status: Married, **Passport No.: G9921019**, Location Preferences: **Delhi, Noida, Gurgaon,**