

## OM PRAKASH DAS

Structural Design Engineer

(3+ years of Experience)



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### SUMMARY

- An enthusiastic learner with highly motivated and leadership skills, having a Masters in Structural Engineering.
- Over 3 years of experience in design, drafting, modelling and analysis of civil structures like buildings, foundations and cooling towers as per required specifications in REVIT, STAAD.Pro, and AutoCAD.
- Experience with General Arrangement, Reinforcement details drawings, Fabrication drawings along with site surveying and execution.
- Well versed experience in generating Estimation, Valuations, Billing reports etc.

### EXPERIENCE

#### NORTH STREET COOLING TOWER

23<sup>rd</sup> August 2016 - Present

Structural Design Engineer

**About:** North street Cooling tower is a cooling tower manufacturing company with a vast experience in the design, manufacturing, installation and commissioning of large capacity industrial cooling towers.

#### Projects:

- GCP Bf#3 Up gradation Project:
    - Client: M/S. JSW Steel Limited
    - Consultant: MECON India Limited
    - Specification: 3-Cell Cross Flow RCC Cooling Tower.
    - Capacity: 1700 CMH
  - Reconstruction Project:
    - Client: M/S. NAYARA Energy Limited (Essar Oil Limited),
    - Specification: 1-Cell Counter Flow RCC Cooling Tower.
    - Capacity: 3500 CMH
  - 3D modelling and structural analysis along with preparation of Bill of materials, shop drawings and clash detection report of some more cooling Towers :
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- 12000cum/hr. Cross flow RCC Cooling Tower with PVC splash Bar  
(No. of cells-6, cell size 14.0mx19.0m, fore bay size 3.5mx42.0m)
  - 5000cum/hr. Cross flow RCC Cooling Tower.  
(No. of cells-2, cell size 12.0mx19.94m, fore bay size 3x19.94m)
  - 4400cum/hr. Counter flow RCC Cooling Tower with PVC Film Fill  
(No. of cells-2, cell size 12.0mx13.0m, fore bay size 3.5x24.0m)
  - Induced Draft Counter flow Wooden Cooling Tower  
(No. of Cells-3, cell size 16.0mx16.0m)
  - Induced Draft Counter flow FRP Pultruded Cooling Tower.  
(No. of Cells-1, Cell size-6.7mx18.6m) And more.....

#### Software

- STAAD Pro
- AutoCAD
- RCDC
- REVIT
- ADVANCE STEEL
- STAAD FOUNDATION

## **ROLES AND RESPONSIBILITIES**

- Preparation of structural drawings, reinforcement details, BOQ and detailed design of various induced draft RCC, Timber, Steel and Pultruded FRP counter flow and cross flow cooling towers using STAAD.Pro and BIM Tools.
- Preparing 3D BIM Models in Revit and Advance Steel of cooling towers and generate fabrication drawings, bill of materials and Clash Detection Reports.
- Produce accurate 2D models and documentation in AutoCAD and robust building information models (BIM).
- Making bill of materials from GA drawings and technical design data sheets.

## **APPRECIATIONS**

- Designed a cooling tower having space constraints.
- Implemented Autodesk Revit structures and Advance Steel in our company for the structural modelling of cooling towers for making all GA, fabrication, section, rafting drawings and shifted from a 2D software (AutoCAD) to a 3D modelling software.
- Designed unique Steel and Pultruded cooling tower structures with minimum column dimension and structurally stable.

**BHOLA INFRATECH PVT. LTD.**

**May 2013 – March 2014**

**Civil Engineer**

**PROJECTS: - GANGA JAMUNA ENCLAVE AND SARASWATI ENCLAVE**

## **ROLES AND RESPONSIBILITIES**

- Planning and implementing projects effectively in schedule time of construction works of Residential Projects.
- Site inspection for civil construction work and ensure that the work is done as per the project specifications and issued for construction drawing/final approved drawings from authorities.
- Proper management of materials and workmanship.
- Planning and indenting daily requirement of labour, construction machinery, materials and formwork.
- Ensuring that all the works meet the stipulated quality standards.
- Co-ordinating with contractors and sub-contractors for smooth flow of work.
- Guiding the supervisor how to handle the materials and labour to minimize the cost.
- Preparing engineering documents including structural drawings, contract proposals, material lists, reinforcements and structural specifications.

## **INTERNSHIP**

**TEACHING ASSISTANT (M.TECH)**

**FEB 2015 – MAR 2016**

**KIIT UNIVERSITY**

Being an M.Tech student, assisted institute's civil engineering department for Teaching, training, designing, testing and research work.

**Client:** Tata Steels

Worked as a trainee where I dealt with Construction, Management of site, obtaining Approvals and Construction Permits, Erection of structures and Execution of drawings and quality control of Tata Steel Ferro Chrome plant at Tata Steels Gopalpur.

## **ACADEMIC PROJECTS**

### **STRENGTHENING OF RC BEAMS WITH GLASS FIBRE REINFORCED POLYMER COMPOSITES**

**DURATION:** - 1 YEAR

Strengthening systems can improve the resistance of the existing structural members to internal and external forces in either a passive or active manner. This research work has demonstrated that one could replace the steel reinforcement by fiber reinforced polymer (FRP) reinforcement. In this experimental investigation the flexural and shear behaviour of reinforced concrete beams strengthened by GFRP sheets are studied and compared with conventional RC beams. Analytical analysis is also carried out to find the ultimate moment carrying capacity and compared with the experimental results. And it was concluded that the FRP confinement enhances both stress and strain behaviour.

### **DESIGN OF MULTISTORIED RESIDENTIAL BUILDING USING STAAD.Pro**

**DURATION:** - 4 MONTHS

STAAD.Pro has been used to understand earth quake design and detailing concepts. Following points were covered in this project work.

- Study of analysis Data of the software.
- Study of design of various elements of building.
- Modelling of the building in the STAAD.Pro giving all boundary conditions (supports, loading etc...)
- Analysis and Design of various structural components of the modal building.

## **EDUCATION**

2014-2016	<b>M.Tech STRUCTURAL ENGINEERING</b>	KIIT UNIVERSITY	CGPA-8.0
2009-2013	<b>CIVIL ENGINEERING</b>	ORISHA ENGINEERING COLLEGE	CGPA- 6.8
2009	12 <sup>th</sup> CBSE BOARD	O.D.M PUBLIC SCHOOL	76.8%
2007	10 <sup>th</sup> CBSE BOARD	MAHARISHI VIDYA MANDIR	85.6%

Date of Birth: 21<sup>st</sup> March 1992

Marital status: Unmarried

Current location: Delhi