

STAC CONSULTANTS

BANGALORE, INDIA



ABOUT US

We are partnership firm, established in 1999 located in Bangalore, India. We are consulting organisation and render services to all kinds of Civil Engineering activities like Planning, Structural analysis & designs, Preparation of drawings (both shop and field), Estimation, Development of software, Proof checking, Surveying, Preparation of specification, Preparation of tender documents & tender analysis, Project management & co-ordination, Engineering training, Field inspection, Field measurement and supervision.

Our strength is the Design and detailing of Structural Steel, Reinforced Concrete and Engineered Lumber structures.

We handle projects both in and outside India. We analyse and design structures confirming to Indian, American, British and Euro standards and codes.

Our projects include Industrial Structures, Residential buildings (including Engineered Lumber designs as per American standards), Multi storied apartments, Schools, Colleges, Hospitals, Shopping centers, Temples, Warehouses, Liquid retaining structures and special structures like pyramids, domes, folded plates etc.,

WORKING AREAS

1. Design Engineering:

We analyse and design Structural steel, Reinforced concrete and masonry structures as per Indian, American, British and European codes and standards. We prepare Engineering drawings and detail as per relevant codes and standards. Analysis and designs are made for both under ground (sub structure) and over ground (super structure). All designs and drawings are prepared using advanced 2D and 3D softwares. We also prepare architectural plans, elevations and sections. We also analyse and design special structures involving space frames, domes, shells, folded plates, pyramids etc.,



**2x9 MW KABINI HYDRO POWER PLANT,
POWER HOUSE**

WORKING AREAS

2. Project Engineering & Management:

We prepare Detailed Project Reports, Technical specifications, Material take off (quantity estimation), Tender documents, Tender analysis & evaluation, contract finalisation etc., We prepare CPM and PERT charts and help the contractors / owners to manage the construction activities at site by providing vital information about critical paths, resource & material management and manpower management. We do construction quality checks, construction supervision, bill checking etc., We also help owners / contractors / vendors to solve technical problems faced by them at various stages of construction.



2x500 MW THERMAL POWER PLANT AT CHANDRAPUR.

STATION BUILDING

WORKING AREAS

3. Structural Steel fabrication drawing & BBS:

Based on the design drawings we develop shop as well as field erection drawings. We prepare fabrication drawings using advanced 3D softwares as per Indian, American, British and Euro codes. We design connections and develop connection details like beam to column, beam to beam, bracings, base plates, splice etc., as per respective codes and standards. We also prepare Bar Bending Schedule for the reinforced concrete structures. BBS (Bar bending schedule) are prepared using spread sheets as per Indian, American, British and Euro codes.



**PYRAMID SHAPED RESTAURANT (ARENA BREWERY)
BANGALORE**

WORKING AREAS

4. Engineered Lumber Designs:

This service is rendered for residential / commercial, row houses and apartment buildings in USA. We design the Engineered wood floor joists, beams, columns, roof (stick built and truss) and prepare shop and field drawings. Analysis and design is performed using advanced softwares developed exclusively for Engineered lumber. We provide economical and efficient flooring system without compromising the floor performance. We also prepare lumber take offs using advanced softwares.



RESIDENTIAL BUILDING IN ATLANTA, USA

WORKING AREAS

5. Transportation / Urban Mobility Solutions

We plan urban transport / mobility requirements including Road network studies, solutions to traffic congestions, parking demand studies, grade separators and other traffic planning studies. Under this umbrellas, we also carry out feasibility studies / viability studies / detail designs for Urban Mass Transportation including Tramways, BRTS, MRTS, ELRTS, Metros and other modes of mass transport. Under the above studies we carry out ridership studies, alignment finalization. Station loadings, design of viaducts, stations , depots and other essentials, cost estimates and financial viability of the project.



Raghavendraswamy Temple - BANGALORE

SOFTWARE HANDLING CAPACITY

- AutoCAD
- CADSRC / RCCAD
- STAAD Pro
- MS Projects
- Detail cad
- TJ Xpert
- Keymark
- Fastplan
- Istruct
- X Steel (Tekla)
- Frame works plus
- PDS
- Revit
- Planswift
- Microstation
- SDS 2



PH BOILER STRUCTURE, SHREE CEMENT, RAIPUR

TYPES OF PROJECT WORKED

- Power Plants (Thermal, Hydro, Captive, Nuclear)
- Cement Plants
- Steel Plants
- Automobile Industries (Production and assembling units)
- Textile Industries
- Paper industries
- Other Industrial buildings (Rice, cotton, sugar etc.,)
- Metro Rail project
- Ware houses
- Institution buildings (Schools & Colleges)
- Hospital
- High rise buildings
- Inns & Restaurants
- Temples
- Cultural and heritage buildings



CRUSHER HOUSE, EMCO POWER PLANT

TYPES OF PROJECT WORKED

- Residential buildings (Bungalows and apartments)
- Special structures like pyramids, dome, space frame structures etc.,
- Resot
- Indoor stadium
- Water treatment plants
- Sewage treatment plants
- Green houses
- Overhead and under ground tanks
- Formation of Residential layout.
- Formation of road and drain layouts on both plain and hilly terrain.
- Wind mill projects
- Hangers (Airport)
- Acrylic fiber plant
- Water supply projects
- Urban road widening projects



SILOS FOR ULTRATECH CEMENT

AREAS / STRUCTURES OF POWER PLANT DESIGNED & DETAILED

1. Power House (Station Building)
2. TG foundation
3. Coal Handling structures (Conveyor galleries, screen house, crusher house, junction towers, take up towers, Wagon tipplers etc.,)
4. Ash Handling structures (Bunkers, silos, ash ponds etc.,)
5. Water treatment plant
6. Raw water reservoir
7. Boiler structures
8. ESP
9. Chimney Foundations
10. Switch yard structures



CONVEYOR GALLERY & TRESTLE FOR INDIA BULLS

AREAS / STRUCTURES OF POWER PLANT DESIGNED & DETAILED

11. Transformer yard structures
12. Transmission towers
13. Mill and Bunker structures
14. Pipe and Cable racks
15. Intake and penstock structures
16. Power canal and Tail race canal.
17. Cooling towers
18. Pump houses (Raw water & CW)
19. Control buildings
20. Flood light towers
21. Hydraulic gates



POWER HOUSE, HEMAVATHI POWER PLANT

LANDMARK STRUCTURES EXECUTED BY US

Landmark designs / Activity	Details
Tallest building / structure designed	105 m
Longest building designed	343 m
Single structural steel building of highest steel quantity designed	22000 tons
Single reinforced concrete building of highest quantity of concrete designed	350000 cum
Single reinforced concrete building of highest reinforcement steel designed	38500 tons
Highest number of floors for residential apartment complex in India designed	10 floors
Largest area of a single residential apartment designed for USA	96000 sft
Longest conveyor gallery with trestles designed	5 km
Largest capacity of single underground water tank	2020 cum
Largest pyramid size	25600 sft
Highest quantity of a single structural steel detailing (fabrication drawing) structure	5500 tons



BUNKER BUILDING, BHAVNAGAR

LIST OF COUNTRIES WORKED WITH

1. USA
2. UK
3. UAE
4. JAPAN
5. SUDAN, AFRICA
6. BURMA
7. MALAYSIA
8. CANADA
9. SENEGAL, AFRICA
10. SOUTH KOREA
11. BANGLADESH
12. MALDEVIS
13. THAILAND



HOME DEPOT IN USA

OUR WORKS ACROSS THE GLOBE

UNITED STATES OF AMERICA



P.F.CHANG'S RESTAURANT, USA



FAIR FIELD INN ATLANTA, USA

STEEL DETAILING JOBS – ABOUT 2000 RESTURANTS, 1000 OTHERS (MALLS, AIRPORT, WAREHOUSE, INDUSTRIAL BUILDINGS ETC.,)

OUR WORKS ACROSS THE GLOBE

UNITED STATES OF AMERICA



RESIDENTIAL BUILDING UNDER CONSTRUCTION, NASHVILLE



BUNGLOW AT ATLANTA

ENGINEERED LUMBER DESIGN JOBS – ABOUT 6000 RESIDENCES

OUR WORKS ACROSS THE GLOBE

UNITED KINGDOM



BARROT HOMES, LONDON

BAR BENDING SCHEDULE JOBS – ABOUT 20 INCLUDING HIGH RISE BUILDINGS

OUR WORKS ACROSS THE GLOBE

MALDIVES



SUNSET BAR, St REGIS VOMMULI RESOT

OUR WORKS ACROSS THE GLOBE

UAE



AL QANA, ABU DHABI

OUR WORKS ACROSS THE GLOBE

SENEGAL, AFRICA



125 MW SENDOU TPP, SENEGAL, AFRICA

OUR WORKS ACROSS THE GLOBE

CANADA



MATTAMMY HOMES, OTTOWA

OUR WORKS ACROSS THE GLOBE

THAILAND



TESCCO STORES, BANGKOK, THAILAND

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AFFILIATIONS : Registered Structural Engineer in KIADB
Life member of ICI
Life member of ACCE

