

Civil Engineering Services

The Cranes - Civil Engineering Services Group is in the business of providing services for the civil & structural engineering community for the last 15 years. Our team includes PhDs with more than 25 years of experience (Civil - Structural Engineering), Masters in Engineering (Structures) and Bachelors in Civil Engineering.



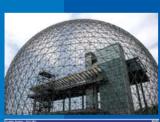
- Proof Checking of Analysis & Designs
- Software development for Analysis, Design & Drawing for Civil Engineering Structures - NISA/CIVIL
- Customized software development for **Civil Engineering**
- Research & Development related to Civil Engineering field

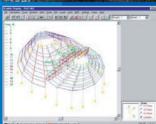


- Advanced Dynamic Analyses (Transient, Time History, etc.)
- Floor Response Spectra
- P-∆ Analysis
- Construction Sequence Analysis including prestressing sequence
- Nonlinear Analysis (Material, Geometric)
- Fluid Structure Interaction



Design/Analysis and qualification of structure





Steel Dome structure for assembly hall in Mysore

Civil Design Capabilities

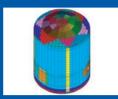
- Buildings RCC, Steel
- Bridges Straight, Curved, Skew
- Analysis of Nuclear Power Civil Structures
- Machine Foundations TG Foundations, **Block Foundations**
- Space Frames including Joint Selection and Allocation
- Structural analysis and Design of Pipes
- Gas holding structures
- Under Tunnels, Super passages, Aqueducts
- Cooling Towers, Smoke Stacks
- Water Treatment Plants, Retaining Structures
- Modeling and Analysis of Innovative **Civil Engineering structures**
- Seismic Re-Evaluation of structures as per AERB/ASME/ASCE

Software Tools and Expertise

NISA/CIVIL | ANSYS® | LS-DYNA® STAAD® | AutoCAD® | CAESAR®



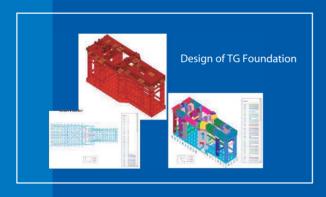
Design/Analysis and qualification of high-rise building



Evaluate Ultimate Load carrying capacity inner containment structure beyond Accident Scenario

Partial list of Innovative R & D work handled by members of our group

- To Evaluate Ultimate Load bearing capacity of Nuclear containment structures
- Customized software development for complete Analysis, Design & Drawing (GA & Reinforcement) for Turbo Generator foundations



 Customized software development for complete Analysis, Design & Drawing of Irrigation structures like Dams, Under Tunnels, Radial & Vertical Gates etc.



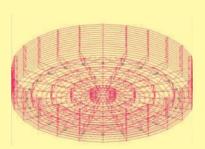
Partial List of consultancy work completed by us..

- Under Pass Grade separator Civil World
- Large Span Steel Space frame roofs ITPO
- Large Industrial Structures Steam Generator Buildings
- Analysis of Large Capacity Crane structures and material handling equipment - WMI cranes,
 SMS DeMag
- Villas, Apartments & Commercial Buildings Klassic, Galaxy, Shruthi...
- Water Treatment Plants, Swimming Pools - KUWSD&B
- Large capacity water tanks KUWSD&B & Professional Board
- Institutional structures SIBBC, Dental College,
 MSRIT, Monastery, Cancer detection and education center, Naturopathy hospital
- Dry fabric seal type Gas Holders-SMS Demag
- Feasibility study on Sky bus system CES
- Study of wind effects between two high-rise buildings - South America
- Seismic Re-Evaluation of Nuclear Power Plants,
 Equipments and Supporting
 Structures NPCIL (MAPS, TAPPS, RAPPS) & FBTR





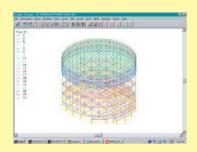
Analysis and Design qualification of 40 T crane structure – WMI



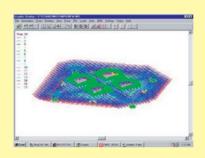
Stress Analysis and Design of dry fabric seal type Gas Holder (Capacity 30000 m3) – SMS DEMAG



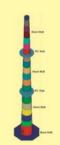
Analysis and design of steel monument structure



Analysis and design qualification of 40 Lac Litres Overhead Tank resting on sloping ground – RR water supply project



Analysis of Space frame - ITPO



Seismic reevaluation of Mast



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