

INDUSTRY INTERACTION

The Department has always had close interaction with the industry and has been associated with infrastructure projects in all parts of the country besides a few abroad, through a number of consultancy projects. These projects have also covered the strategic sectors such as atomic energy and defence. The Department – industry interaction caters to the needs of a wide spectrum of professional organization in Civil Engineering and allied sectors such as Construction companies and Irrigation Departments and corporations, Water supply boards, Public Health Engineering Departments, Rural Engineering Departments, Power Corporations, Contractors, Public Sector Undertakings and mining industry. The following list provides a brief profile of these activities.

- Acoustic vibration of sodium in air exchanger
- Arresting gas leakages from digester domes at K & C Valley and V. Valley
- Computer simulation of wind effects on cooling towers at RTPS
- Critical studies based on reports
- Dam break analysis and disaster management plan for dams in Gundia hydro electric project
- Design and development of particle filters for bearings
- Design of cooling water sump and forebay for recirculating water conductor system at RTPS
- Design of lined pond for caustic liquor
- Design of recirculating water conductor system and surge analysis at RTPS
- Design of skywalks in Bangalore city
- Design, erection and commissioning of pump test bed facility
- Detailed design and engineering of ash post
- Detailed engineering and design of raw water pond
- Detailed geotechnical design work for the construction of bridge across Chenab river in Jammu & Kashmir
- Distress re-wall approaches on NH-7
- Dynamic stability of backfill at nuclear island
- Evaluation of sandy soil backfill in and around a nuclear plant building
- Examination of the safety of the vertical cut in jointed rock mass in the surge pool and pumphouse
- Expansion of ash pond dykes
- Expansion of red mud pond
- Geo hydrological studies along the metro rail alignment in Bangalore

- Godavari lift irrigation scheme
- Hubli-Dharwad water supply scheme
- Hydraulic model study for raw water pump sump and forebay
- Intake arrangement of the integrated steel plant at Bakaro, Jharkhand
- Intake siphon design and hydraulic transient analysis
- Measurement of dynamic properties of soil
- Nimhans under pass cross
- Numerical modeling & stress analysis of surge shafts for Subansiri lower project
- Peer review of structural and foundation design for buildings
- Physical modeling of intake siphon for power project in Chhattisgarh
- Preliminary environmental screening of public sector enterprises in Karnataka
- Proof checking of design and drawings for a proposed cargo complex
- Proof checking of hydraulic and structural designs for storm water drainage system
- Proof checking of structural designs & drawings
- Pump sump model studies for Ramagundam STPP stage III
- Raising height of tailing dam at Rampura Agucha mine
- Raising scheme of existing tailing dam at Darba mines
- Red mud tailings dam for sterlite langigarh aluminium plant
- Rehabilitation of the existing brick masonry arch bridge across Vrishabhavathy river
- Remedial measure for uplifting of working floor
- Remedial/restoration measures for the safety of the TPSS
- Review and recommendations on surge analysis for augmentation
- Saurashtra branch canal pumping scheme
- Simulation studies for integrated reservoir operation in Narmada sagar basin
- Skywalk at ISCKON temple, Bangalore
- Slope stabilisation scheme for the cut slopes in Chenab bridge project site
- Slope stability analysis of left and right abutments of special bridge across river Anjikhad
- Soil investigation
- Stability analysis for increasing the height of red mud disposal pond
- Storage facility of water supply schemes in Rajasthan

- Structural checking of hammer head crane
- Studies for 8x135 mw lignite based thermal power plant
- Studies for Tarapore atomic power project
- Study and verification on the overall feasibility of rural water supply scheme
- Sump model studies
- Surge analysis
- Technical feasibility of water intake arrangement near Chhapi dam, Rajasthan
- Technology transfer for box pushing
- Testing and evaluation of construction materials for Madei river basin hydroelectric projects
- Tirupur project
- Transient analysis for water supply projects
- Vibration response prediction on subsystems in a flight vehicle
- Water distribution analysis for rural water supply scheme for villages
- Wind pressure on chimneys