

Partial List of Plant Design and Detail Engineering Projects

Sl. No.	Client & Project	Nature of work
Oil & Gas Plants		
1	Engineers India Limited (EIL), Chennai	3D design and extraction of drawings for: → HPCL Mumbai Refinery → HPCL Vizag Refinery - FCCU Revamp → IOCL Panipat Refinery
2	Engineers India Limited (EIL), New Delhi	3D Plant Design software customization (over 110 man-months) to meet EIL's oil and gas industry standards and to automate 3D modeling of EIL's pipe supports, generation of support drawings with BOMs and support markings on GA drawings and isometrics 3D design and extraction of drawings for ATU and SWS units of Mangalore Refinery and Petrochemicals Ltd. 3D design of North Shore Australian Salt project and extraction of drawings
3	L&T (OGSP Division), Mumbai, India	3D design for DHDS Unit of IOCL's Mathura Refinery and propose design modifications to avoid clashes.
4	Malaysia Shipyard and Engineering (MSE), Malaysia	→ 3D Plant Design software customization (over 15 man-months) → 3D design and extraction of drawings and spools for the following offshore platforms. ➤ External Turret Mooring for Yoho FPSO for Exxon Mobil E-11K Platform for Shell Oil ➤ Helang Central Platform for Nippon Oil
5	Sime SembCorp Engineering (SSE), Malaysia	→ 3D Plant Design software customization (over 20 man-months) → 3D design and extraction of drawings and spools for the following offshore platforms. ➤ Guntong-E unit for Exxon Mobil ➤ ANCSI CPU for Petronas Carigali ➤ Burga Raya Platform for Talisman
6	Sime SembCorp Engg., Malaysia	Development of Integrated Inspection programme
7	Techicas Reunidas, Madrid, Spain	Piping analyses and support selection for CSPC, Nanhai Petrochemical Plant in China
8	Technip / FARC Italia, Rome, Italy	Piping analyses and support selection for Corinth Refinery expansion project in Greece
9	Triune Projects Pvt. Ltd., New Delhi	3D design and generation of GA drawings and isometrics for Offshore Oil Exploration Vessel / Platform in Angola, Western Africa.

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10	Valdel Engineers & Constructors (VEC), Bangalore	3D design and extraction of drawings for the CDSP area of Bina Refinery project of Bharat Oman Refineries Limited.
11	Valdel Engineers & Constructors (VEC), Bangalore - Wadi-latham Project for Occidental Petroleum, Oman	Design and engineering involving piping design, layout in 3D, piping analyses, pipe support design and generation of GA drawings, isometrics and MTO from 3D plant model for the Crude Stabilization unit.
12	ANVIL Corp., Bellingham, USA.	Piping analysis, selection of support types & location and support markings on isometrics for Chevron Salt Lake City Refinery project.

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Process / Chemical Plants		
1	Chemtex, Mumbai	Piping Analysis for a process plant in China
2	De Smet Chemfood Engineering, Bangalore, India and Antwerp, Belgium	Piping Analysis of steam lines including support selection and detailing for De Smet food processing plants worldwide.
3	Eka Chemicals, Sweden 105 TPD Integrated Chlorine dioxide plant in China	Routing of pipelines including selection and location of pipe supports and development of 3D (PDMS) model of the Tank Farm area and detailing of pipe supports.
4	Ershigs, Bellingham, Washington, USA	Pipe stress analyses for FRP piping systems for Tennessee Valley Authority (TVA) Generation of FRP piping spool drawings from isometrics
5	Indo-Berolina Industries Chematur (Engg & Consultancy) Ltd.-Mumbai	Equipment modeling and layout, piping design and layout, pipe stress analysis and support detailing for Chematur Sweden's Isocyanate project
6	Keren Projects, Israel Agan Biological Waste Water Treatment Plant	Development of piping layout drawings (plan and sections) and generation of isometrics (with BOM) involving 28 P&IDs (by Bayer Technologies) for a Tank farm area with over 500 pipelines of CS, SS and Polypropylene materials.
7	L&T, ECC, Chennai, India	3D design and extraction of GA and isometric drawings for Hindustan Zinc Ltd. project.
8	Stebbins Chemipulp – Jenssen Inc., USA	Piping analysis, pipe support design and preparation of support drawings for a SO ₂ plant of Saudi Arabian Oil Company (ARAMCO)
9	Thermal Systems Pvt. Ltd., Hyderabad, India – Dahej Smelter Plant	Waste heat recovery steam generator of a smelter plant- 3D design, piping flexibility analysis, piping layout and support design, generation of isometrics and support drawings including BOMs for piping and supports.

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10	UHDE, Mumbai, India	3D design for SAFCO-IV (Saudi Arabian Fertilizer Company)

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Fossil Fuel Power Plants		
1	TOSHIBA Plant Systems & Services, Hyderabad – LANCO Kondapalli CCPP Stage 2 and 3.	Piping detailed design, pipe stress analysis, support detailing and generation of drawings for three units of a combined cycle power plant.
2	Toshiba Thermal & Hydro Power Systems Company, New Delhi, India – Kashipur CCPP Phase 1	Piping detailed design, pipe stress analysis, support detailing and generation of drawings for 225 MW Gas based combined cycle power plant.
3	Alstom Power, New Delhi.	3D design of plant layout and piping systems for a fossil power plant
4	Associated Power Team, Hyderabad, India – Bhushan Steel.	Steam Turbine Area – 3D design, pipe stress analysis, piping layout and generation of piping support drawings & isometrics
5	Associated Power Team Ltd., Hyderabad, India – Pan African Paper Project	Steam Turbine Area – 3D design and piping layout and generation of Isometrics
6	Associated Power Team Ltd., Hyderabad, India – Orissa Sponge Iron Ltd.	Steam Turbine Area – 3D design, pipe stress analysis, piping layout and generation of piping support drawings & isometrics
7	Associated Power Team, Hyderabad, India – Usha Martin Project	Steam Turbine Area – 3D design, pipe stress analysis, piping layout and generation of piping support drawings & isometrics
8	BHEL Haridwar, India	3D Plant Design Software Customization (over 20 man-months) & 3D Design of Electrical Equipment. Piping layout design in 3D, for Integral Piping System for 250MW & 500 MW Steam Turbines
9	BHEL Piping Center, Chennai, India	3D Plant Design Software Customization (over 35 man-months) and 3D Design of Rihand power station high-energy lines to generate Fabrication Isometrics in BHEL's format.
10	BHEL, Ramachandrapuram Hyderabad	Performed 3D design of equipment, structures and piping, pipe stress analysis, pipe support detailing and generation of GA drawings, isometrics and Bill of Materials for the Steam Turbine / Gas Turbine / Boiler Feed Pump / Gas Booster Compressor areas of 180+ captive / combined cycle / fossil power plant projects. Also performed 3D Plant Design Software Customization (over 60 man-months) to meet BHEL's design standards and procedures

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11	BHEL, Trichy, India	3D Plant Design Software Customization and 3D Design of Fossil Boilers for 220 MW and 500 MW Power Plants
12	BHEL Project Engineering Management, New Delhi	<p>Performed 3D design of equipment, piping and structures and generation of GA drawings, isometrics and bill of materials for 40+ captive / combined cycle / large scale fossil power projects.</p> <p>Also performed 3D Plant Design Software Customization (over 270 man-months) to meet BHEL's design standards and procedures</p>
13	BHEL Transmission Business Group, New Delhi	Performed 3D Software Customization (over 30 man-months) to automate the design and layout of Substations and to generate all required drawings and reports from the 3D models of Substations.
14	Godavari Engineering Ltd, India – GEI project	Steam Turbine Area – 3D design and piping layout and generation of isometrics and bill of materials
15	Mecal s.r.l., Madrid, Spain	Piping Analysis, Selection of Support types & location and Support drawings for piping systems of a Combined Cycle Power Plant
16	M N Dastur & Company, Chennai, India – ONGC's OpaL Dahej Project	Piping Design and Analysis for High Energy lines, 3D design for the complete plant, Pipe support detailing and generation of GA drawings, isometrics and reports from the 3D model for a 210 MW Combined Cycle Power Plant
17	Thermal Systems Pvt. Ltd., Hyderabad, India – Sreeram Energy Systems	Boiler Area – 3D design, pipe stress analysis, piping layout and support design and generation of isometrics and support drawings including BOMs.
18	Thermal Systems Pvt. Ltd., Hyderabad, India	Piping stress analysis and generation of isometrics with Bill of Materials for Godavari Ispat Project
19	Tata Consulting Engineers (TCE), Mumbai, India	3D Plant Design Software Customization (over 25 man-months) to meet their design standards.