STMi CONSULT

EXPERTS IN DESIGNING, PLANNING AND BUILDING.

About - Sellhorn Technomech Marine and Infrastructure Consult Private Limited (STMI Consult Private Ltd.)

STMI is leading technical consultant focussed in the areas of Ports, Infrastructure and Offshore wind.

Sellhorn Technomech Marine and Infrastructure Consult Private Limited (STMI Consult Pvt. Ltd.) is a joint venture between Sellhorn Ingenieurgesellschaft mbH of Germany and Oiltech Group of India.

The core business of STMI lies within the spheres of techno economic feasibility studies, conceptual engineering, detailed design and project management.

Our main acitivities includes hydraulic and coastal engineering for storm surge protection, coastal stabilisation, dredging and waterways. Our executed projects include global experience in the areas of:

- Ports and terminals for handling of containers, bulk and RoRo cargo and ferry and cruise operations
- Infrastructures in the road and rail transport sector (tunnels and bridges)
- General infrastructures for production plants and large building schemes
- Infrastructure of utilities, such as sewage, storm water and potable water supply
- Facility development and management (buildings, warehouses, houses and shopping malls)
- Environmental assessment and engineering

Sellhorn Competence

Sellhorn offers a range of consultancy services for the development, management, design and implementation of projects. This includes all services commencing from project definition and feasibility studies, through engineering design and statutory approval procedures till construction supervision.

Depending on the project external experts from other specialised companies or university institutions they are incorporated as sub consultants into the performance of the services. Several projects have been implemented by Sellhorn on turnkey basis incorporating all multi-disciplinary facets of a complex project.

STMI Consult Private Limited is the competence centre for challenging engineering services of the Sellhorn Group with some 200 employees, working in the following fields:

- Maritime sector including Sea Ports & Terminals, River Ports & Terminals, Harbour design and infrastructure related to ort projects such as roads and hinterland connections.
- Railway and intermodal sector.
- Aviation sector with related infrastructure such as runways, apron, taxiways, bridges, tunnels, retaining walls etc.
- Industrial infrastructure such as development and upgradation of power plants, production plants, logistics centres, inland terminals etc.

STMI Company Structure

Sellhorn Technomech Marine and Infrastructure Consult Private Limited was set up by Sellhorn Ingenieurgesellschaft in collaboration with Oiltech group. Its headquarters are in Chennai, India. The company is managed by its director's Dipl.-Ing. Dennis Grosser, M.Sc.Eng. Herman Kriel along with Vivek Dilip and Sanjit Biswas.

Services

STMI Consult private ltd assists port authorities with extensive design and construction management services for development of modern and efficient port and Harbour facilities.

STMI undertakes projects in the areas of planning, engineering and construction supervision of dockyards, jetties, container terminals, cruise terminals, fishing harbours, passenger ferry berths, LNG Bunkering Terminals, waterfront development and Port Extension Projects.

As a country with a coastline of over 7500 km, we take immense pride in participating in the development of India's Port & Harbour Engineering projects.

Our Key services includes

- Project management
- Construction Management
- Detailed Engineering Design
- Feasibility Studies
- Port and Harbour Master Planning
- Port Terminal Planning
- Port Infrastructure Planning
- Procurement
- Coastal Protection
- Quay Wall and Infrastructure Design
- Breakwater and Revetment Design
- Scour Protection

- Harbour Wave Studies
- Gangway and Access Design
- Port Rehabilitation Projects
- Risk Assesments
- Port Safety studies
- Shoreline Management Plans
- Environmental Impact Assesments
- Pavement and crane rail Design
- Berthing Design
- Mooring Systems design
- Bollard and Fendering Design
- Ship Manoeurving Studies
- Navigational Design

Technical Capability & Infrastructure

HARDWARE

Sellhorn uses state of the art computer technology for the collecting and processing of data and information:

SERVERS

- DELL R 720 with core 8 processor
- HP ML 150 G6 with XEON processor
- HP ML 350 E with core 4 processor

SYSTEMS

- INTEL CORE I5 / INTEL CORE I7 PROCESSOR
- AMD PHENOM
- DELL PRECISION Work Stations

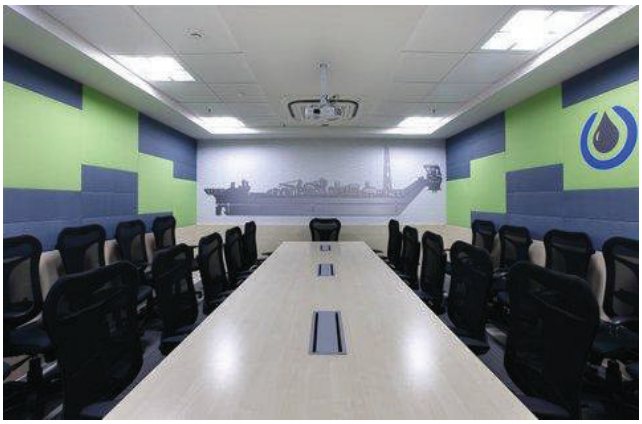
DOCUMENT MANAGEMENT / STORAGE

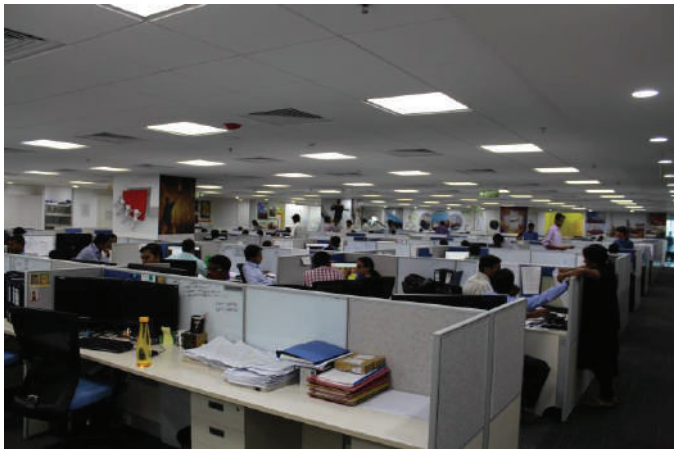
- EDMS / GALLEON
- WAMP SERVER & IIS
- i-OMEGA STORAGE
- HP DATA PROTECTOR
- AUTOMATED BACKUP
- JUST CLOUD BACK UP

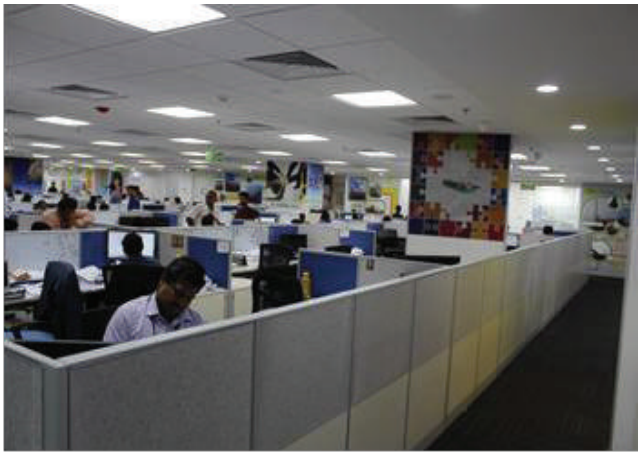
SECURITY

- FIREWALL: FORTIGATE
- FIREWALL SECURITY
- ANTIVIRUS: KASPERSKY INTERNET SECURITY

INFRASTRUCTURE







SOFTWARE

General Software - Reports, Tables, Databases, Presentations, etc.

For the preparation of reports, tables and presentations Sellhorn uses Microsoft Office Software. Microsoft Outlook and an Exchange Server support the team during the daily work in the projects.

Specialised Software

Contract Documents and Bill of Quantities

Sellhorn prepares tender documents and bill of quantities for their Employers. The bill of quantities are prepared with dedicated software like CALIFORNIA or ORCA, which are equipped with an GAEB interface to exchange data with other software like IDEALOG, ARRIBA.

Structural and Hydraulic Calculations

For the structural design Sellhorn uses software with capable to provide graphical output of structural or hydraulic calculation results (RIB, RSTAB, GGU, INFOGRAPH, INCA, STAB2DNL, etc). Engineers are using STANET as software for the calculation of the hydraulic for the design of sewage and drainage networks.

Drawings

General layout plans, cross sections and details are developed with computer aided design applications (CAD). All drawings can be exported to the formats DXF, DWG and DGN to ensure interface to the Employer's system.

- Allplan, a CAD software developed by Nemetschek Allplan
- MicroStation, a CAD software developed by Bentley Systems
- AutoCAD, a CAD software developed by Autodesk
- CARD / 1, a professional system developed by IB&T GmbH

Project Planning / Project Control / Project Analysis

The progress of the project and the construction steps are developed and controlled with Microsoft Project, a project and control software to plan progress and resources within projects. MS Project allows the project manager the full picture of the project, to supervise the involved departments and to identify risks. Sellhorn also uses EPM (Enterprise Project agement) for managing projects.

Where required by the client Sellhorn is uses the client's own document control and administration software or third party software for particular projects.

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