



Corporate Profile

About Us



Ulysta is a global Energy Consulting Company with Indo - German Portfolio that is well positioned strategically to assist best to Owner/Operators & Engineering Consulting Companies.

Our Vision is to be in most reliable names in providing competent and competitive Engineering & IT Smartplant solutions for Owner/Operators/EPC's & Engineering Consulting companies to maximize their business success.



Established in 2004, having 20+ Years of core Engineering & IT experience



Specialized Engineering & PMC Solutions, 3D Laser Scanning & SAP Implementation Solutions



Intergraph Gold Partners– Gives us access to all Intergraph tools and knowhow



Execution of Project With Full in - House Capabilities



Consulting Solutions for Complete Project Lifecycle



Comprehensive worldwide presence: Canada, Germany, Russia, Austria & India

Our Values

LEADERSHIP



- Integrity to all aspects of business
- Committed, Empowered and Technically Capable People
- Delivering Profitable Sustainability

RELATIONSHIPS



- A trusted supplier, partner and customer
- Collaborative approach to business
- Willing to challenge and innovate
- Seeking enduring customer relationships

AGILITY



- Comprehensive worldwide presence
- Global expertise delivery
- Responsive to customer preferences
- Optimum customized solutions

PERFORMANCE



- Flexible delivery Models
- Delivering on our promises
- People accountable and rewarded for performance
- Innovation delivering value for our customers

Why Ulysta



GLOBAL PRESENCE

Established Engineering Consulting player with more than a decade experience, with a global reach.

- Germany
- India
- Canada
- Russia

GOLD PARTNERSHIP WITH HEXAGON

Partnership Agreement - Intergraph Engineering Environment Services S.p.a. (Hexagon PPM)

Independent Contractor Agreement with Intergraph Italia LLC (Hexagon PPM)

#SoftwareAccess #Global #24x7

NICHE CONSULTING SERVICES

Niche consulting services on SmartPlant solutions for energy sector.

END TO END VALUE CHAIN

Consulting, implementation & support services for complete project lifecycle support

Our Certifications



Intergraph Engineering Environment Services SpA
Division: Hexagon PPM
Strada 7, Palazzo R1
20089 Milanofiori, Rozzano (MI) – Italy
CCIAA 2061448 P.IVA e C.F. 08990250964
P: +39.02.57545.1
intergraph-ees.com

Rozzano, 20 December 2018

Messrs.
Ulysta Software and Consulting GmbH
Steinheistrasse, 4
85737 – Ismaning
Germany

RE: Renewal of the Partnership Agreement signed between Intergraph Engineering Environment Services S.p.a. and Ulysta for 2019

Dear Sirs,

With reference to the above captioned agreement signed on 4 April 2016, we hereby renew the same agreement for 12 months, hence the latter shall expire on 31 December 2019.

We kindly ask you to return the present letter duly signed for acceptance.

Kind regards.

Marco Radice

CEO

Intergraph Engineering Environment Services S.p.A.

For acceptance:

Ulysta Software and Consulting GmbH



Intergraph Italia LLC
Division: Hexagon PPM
Strada 7, Palazzo R1
20089 Milanofiori, Rozzano (MI) – Italy
CCIAA 1422258 P.IVA e C.F. 10969630150
P: +39.02.57545.1
HexagonPPM.com

Rozzano, 20 December 2018

Messrs.
Ulysta Software and Consulting GmbH
Steinheistrasse, 4
85737 – Ismaning
Germany

RE: Renewal of the Independent Contractor Agreement signed between Intergraph Italia LLC and Ulysta for 2019

Dear Sirs,

With reference to the above captioned agreement signed on 28 September 2018, we hereby renew the same agreement for 12 months, hence the latter shall expire on 31 December 2019.

We kindly ask you to return the present letter duly signed for acceptance.

Kind regards.

Intergraph Italia L.L.C.
Regional Divisional Counsel Hexagon PPM

Annalisa Di Nunzio

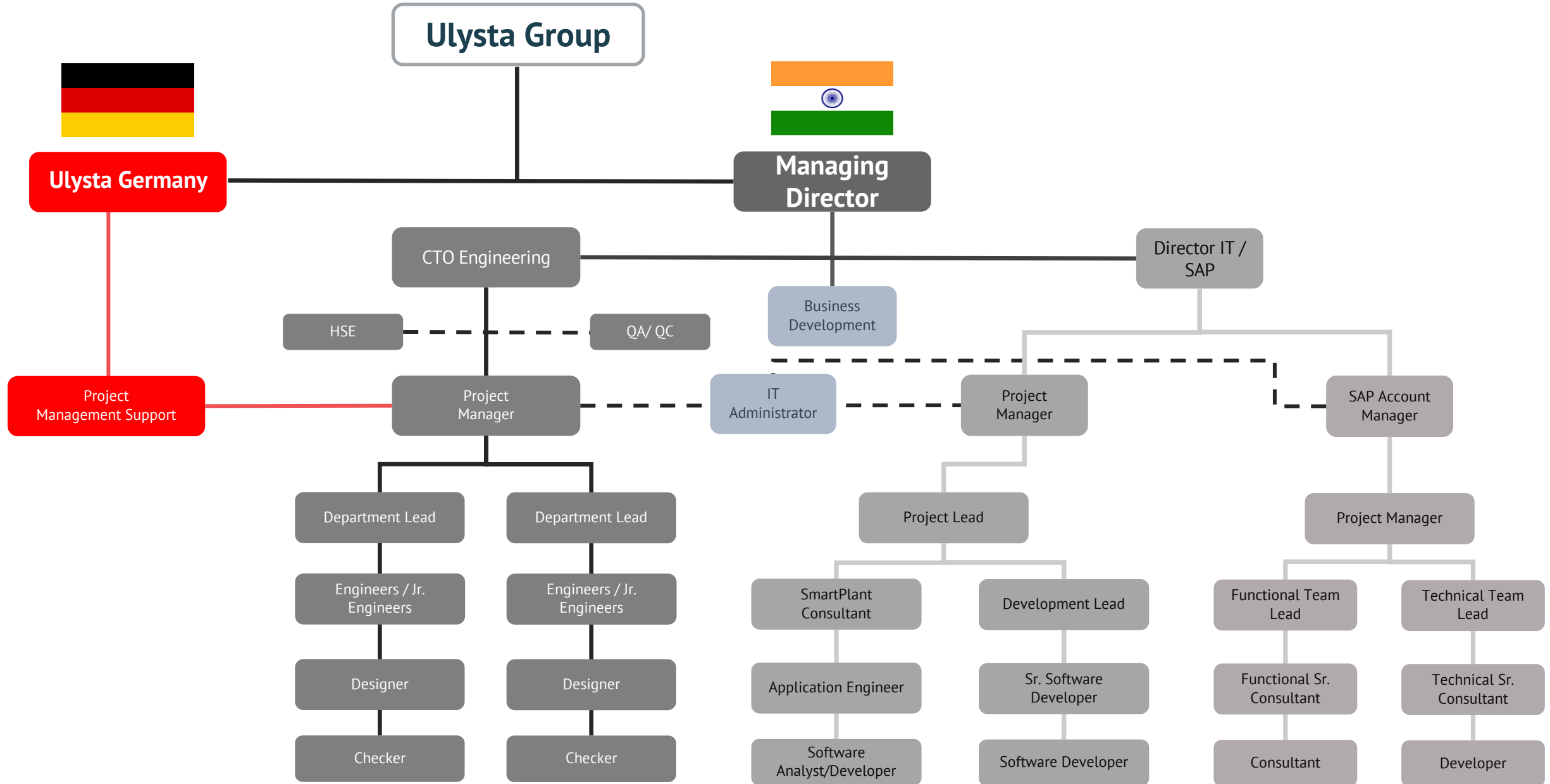
For acceptance:

Ulysta Software and Consulting GmbH

Partnership Agreement

Contractor Agreement

Organogram



Core Team



Sr. No	Team Member	Position	Profile	Experience (Years)	Location
1	Shani Rajpal	Managing Director	Management	11	India
2	Andreas Klingenschmid	General Manager	Management	30	Germany
3	Ulrich Duemichen	General Manager	Management	30	Germany
4	Naveen Rajpal	Ex. Director	Tendering & Proposals	15	India
5	R. K. Chauhan	Ex. Director	Projects	30	India
6	Sameer Chapadgonkar	Executive Director	Business Development	22	India
7	Charlotte Prause	Manager	Business Development	12	Germany
8	Gaurav Tiwari	GM	Projects	9	India
9	Aman Nath	SAP Systems	SAP	9	India
10	Vipul Tyagi	Sr. Manager	Engineering Operations	8	India
11	Maneesh Dubey	DGM (Piping + Pipeline)	Execution	25	India
12	Pranay Johri	AGM	3D Laser Scanning & Survey	8	India
13	AJ Sharma	HOD – Piping	Technical	35	India
14	Pawan Kumar	Lead – Piping	SPPID	9	India
15	Ritesh Jaiswal	Lead – Piping	SP3D	13	India
16	Vijay Kant	Process Engineer	SPPID	9	India
17	Nina Wuebbenhorst	SP3D Consultant	Project Manager	10	Germany
18	Michael Loehr	SP3D Administrator	Project Manager	10	Germany
19	Horst WestenKirchner	IT Consultant	SPmat and SPF	35	Germany
20	Stefan Stallbauer	Project Manager	SPF/SPO/SP3D Consultant	15	Germany
21	Daniel Brandl	Consultant	Application Engineer	20	Germany
22	Satish Atkari	SP3D Consultant	Administrator	8	India
23	Stefan Schulz	SPF/SPO Consultant	Sr. Application Engineer	10	Germany
24	Dominic Reich	IT Consultant	System Administrator	10	Germany

Service Lines



SAP Services &
Digital Engineering



Smart Plant Engineering
Solutions



Multidisciplinary Engineering
Services



Engineering Procurement &
Construction



Project Management &
Co-ordination



Reverse Engineering &
As- Built Services

SAP Digital Business Services



Our SAP solutions are based on our team's extensive project experience and focused strategy on SAP. We work in close cooperation with SAP to deliver the best possible solutions to our customers. The core services include Enterprise Application Support, Information Technology and Consulting Services.

Our service portfolio includes end-to-end business solutions and implementations on SAP Business All-in-One and SAP Business Suite including new dimension products.

Our SAP Services



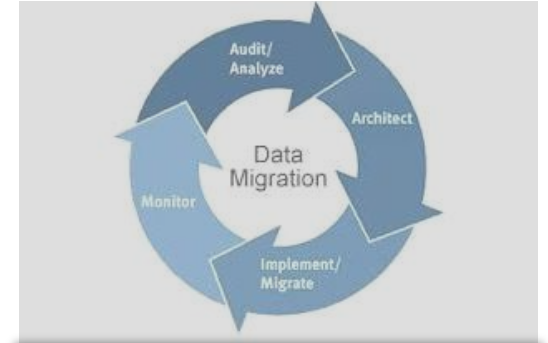
MANAGED SAP SERVICES



SAP INTEGRATION



SAP IMPLEMENTATION,
UPGRADATION & SUPPORT

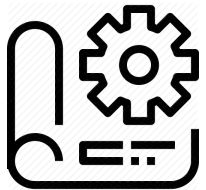


SAP DATA MIGRATION

Our consultants have a proven track record of end-to-end implementations and support across diverse industries.

We offer our clients a 'thought partnership' that enables them to evaluate the right ERP solution (pre-implementation consulting), design and a business blue print aligned with their business goals, and implement a solution which extracts maximum value from their SAP systems.

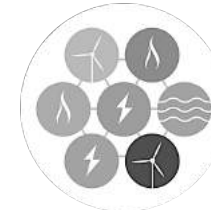
Industries We Serve



Manufacturing



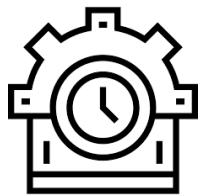
FMCG



Energy Sector



Agriculture



Process Industry



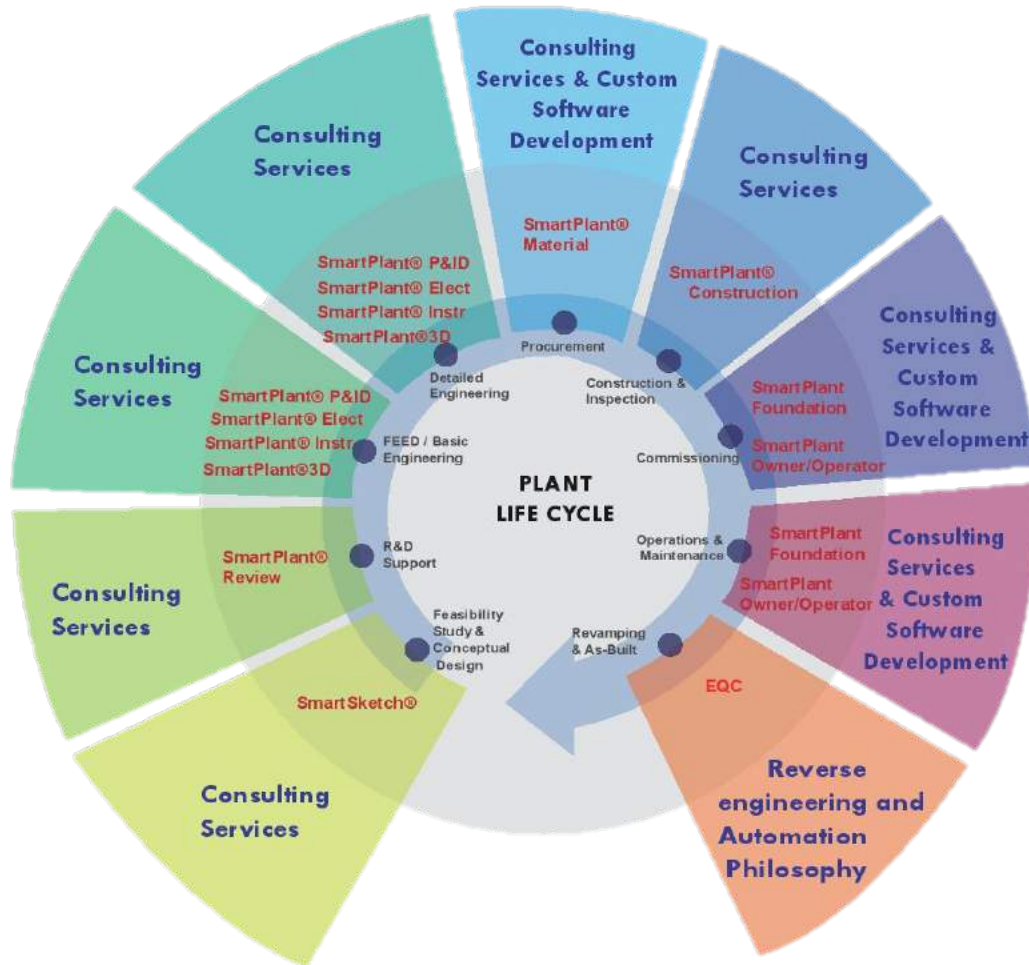
Petrochemical
Industry



Pharmaceuticals



Logistics



SmartPlant Consulting Services:

- SPP&ID - Configuration / Conversion / Publishing
- SP3D - Customization / Spec & Symbol creation / Model Data Conversion /Piping Material Class Generation (Automation)
- SmartPlant Instrument & Electrical -Configuration / Conversion / Publishing
- SPF - Configuration & Integration with different SmartPlant tool data.
- SPO - Implementations with Integration & Data loading.
- PDS2D, PDS3D
- Isometrics configuration
- System Configuration CAD

Software Development & Customization:

- Design & Development of Smart Plant Data and Catalog Management Solutions
- Design & Development of SmartPlant Data Migration Service Tool
- Design & Development of High-Performance Visual Dashboard System
- Software Customization for SPF, SPO, S3D, SPMat

SmartPlant Engineering Solutions



Ulysta Possesses the State of Art IT Infrastructure Maintaining In – House Smartplant Solutions for Engineering & Other Asset Management Activities:

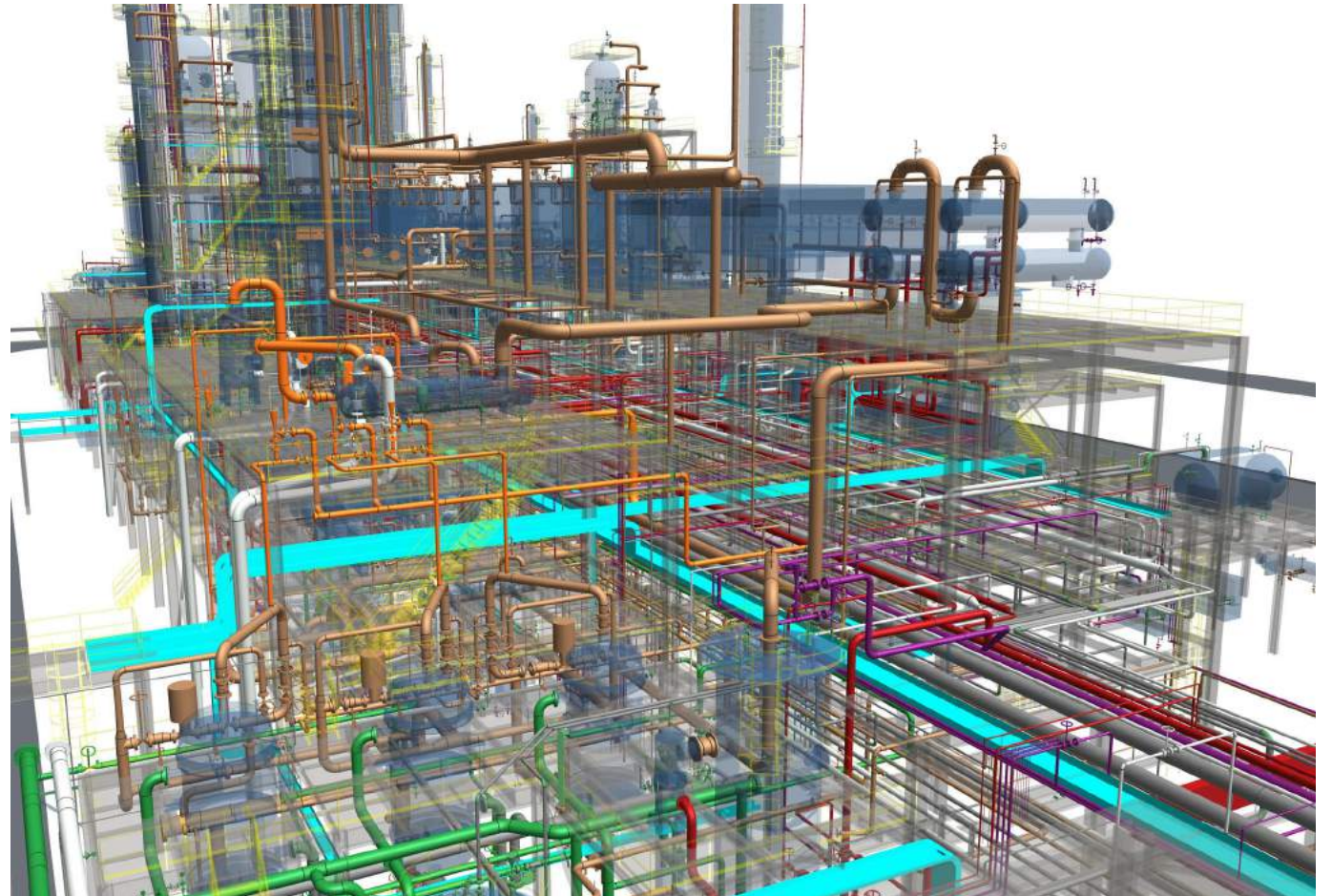
- SmartPlant P&ID
- P&ID Import Assistant
- SmartPlant 3D
- SmartPlant Electrical
- SmartPlant Instrumentation
- SmartPlant Foundation
- SmartPlant Review



3D Intelligent Models

Ulysta has a long term expertise in the design with smart 3D technologically advanced systems:

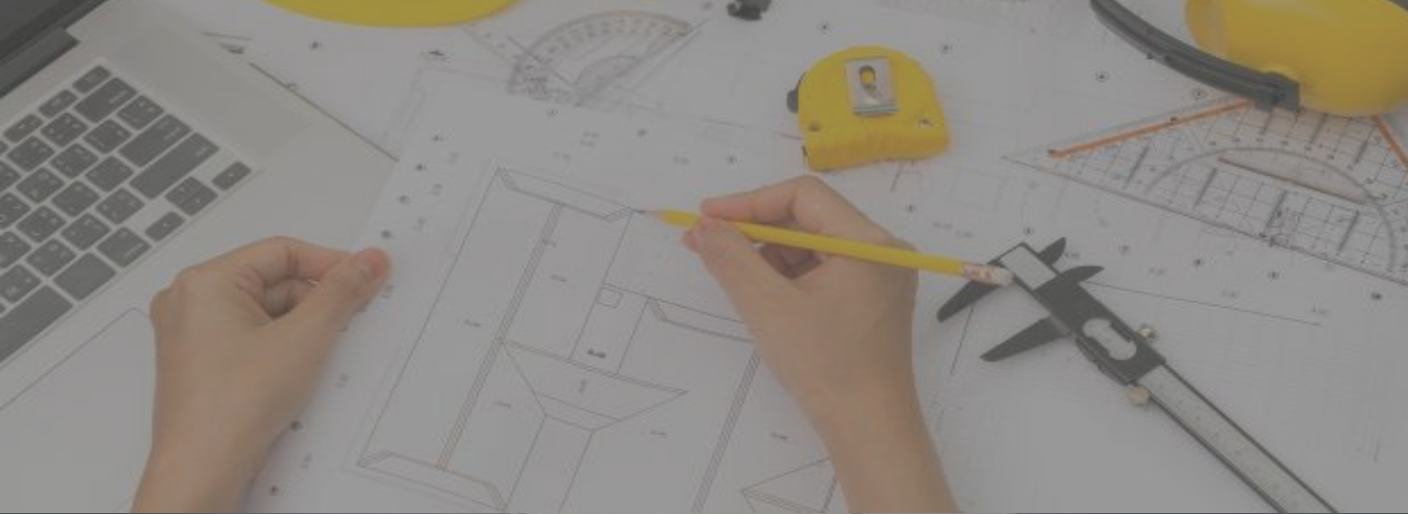
- SmartPlant 3D
- SmartPlant P&ID
- smartPlant Electrical
- SmartPlant Instrumentation
- SmartPlant Review
- SmartPlant Fusion
- SmartPlant Construction
- SmartPlant Digital Asset
- SmartPlant Foundation
- Cyclone



3D Intelligent Models



- Extraction of deliverable for Piping, Electrical, Instruments, Civil concrete, Civil underground, Structural, Architectural, Hvac
- Setup, drawings & reports extraction for analysing the 3D model: Orthographic Drawing, Piping Isometrics, Reports
- Setup labels for extraction of MTO (Material Take Off)
- Preparation of database for Parametric Symbols materials classes management
- Updates and changes within the database
- 3D modeling for all disciplines: Piping & Equipment, Electrical, Civil, HVAC, Instrument
- Alignment of the database with the 3D model
- Management of interference check (IFC)
- Alignment of the 3D CAD model with the P & ID intelligent
- Management of the plant integrated documentation
- Management of the plant information system and integrated system
- Management of the Information System EMMS: operation and maintenance of the system, new interfaces, implementation and maintenance services, import / export data from / to other software systems



**MULTI-DISCIPLINARY
ENGINEERING
SERVICES,**



PMC SERVICES,



**REVERSE
ENGINEERING
SERVICES**

Multi-Disciplinary Engineering Services



Pre-bid Engineering

- RFQ / Tender Preparation etc.
- Review & Estimations
- Preliminary Design Calculations
- Preliminary Layouts
- BOQ / MTO's

Detailed Engineering

- Detail Piping Design
- Electrical & Instrumentation Design Engineering
- Mechanical Engineering
- Civil & Structural Engineering
- 3D Model Development

Procurement Engineering Services

- Vendor Identification, Sourcing, Negotiation
- Vendor Management, Spend Analysis
- Inspection & Project Expediting Services

Basic & Feed Engineering

- Basic Piping Engineering
- Electrical Basic Design
- Instrumentation Basic Design
- Basic Equipment Engineering
- EPC Cost Estimation & Tender Preparations
- RFQ's Preparation

As-Built Engineering

- As-Built Engineering from Point Cloud Data
- Site Survey and Redlining
- Updating Drawings as per Red Line Markups
- Conversion / Migration of P&ID's
- 2D Drawing Conversion

Reverse Engineering Services

Ulysta creates accurate 3D models through Laser Scanning technology – rapidly and cost effectively. Our 3D scanning capabilities reduces the field time required to accurately As-Build facility.

Ulysta and its associates have experience in successfully implementing laser scanning projects.

Technology

- TPS – For small sections (TPS to CADworx to SP3D)
HSLs – For large sections (Point Cloud to SP3D)
- 360 degree data capture using high-speed Laser Scanners
 - High accuracy surveys (+/-3mm)
 - Scanning diameter up to 100m
 - Rapid data capture minimizes time on site

Applications

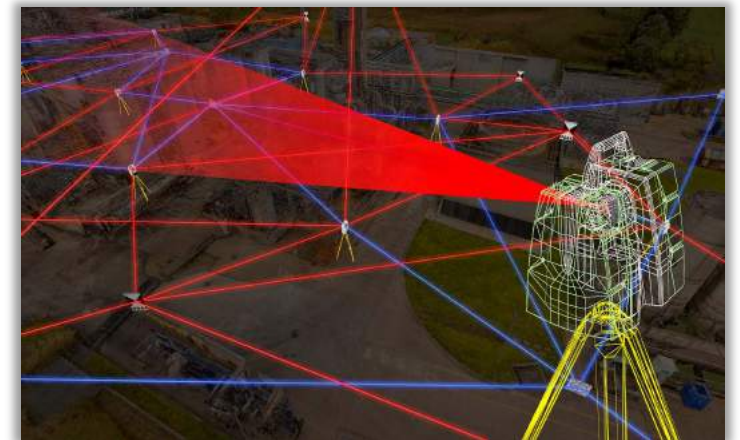
- 3D Laser scanning for new Platforms or Vendor Packages
- As-built Data Collection for brownfield projects to ensure a clash free design
- 3D Laser Scanning for production of As-built Intelligent 3D models

Tools

- Cyclone
- Leica
- ALM
- Standard deliverables for a laser scanning project includes registered point cloud data in formats like .imp/.zfs/.zfc/.pts/.3dd/.rxp etc. Colored point cloud data can be delivered on demand basis

Services

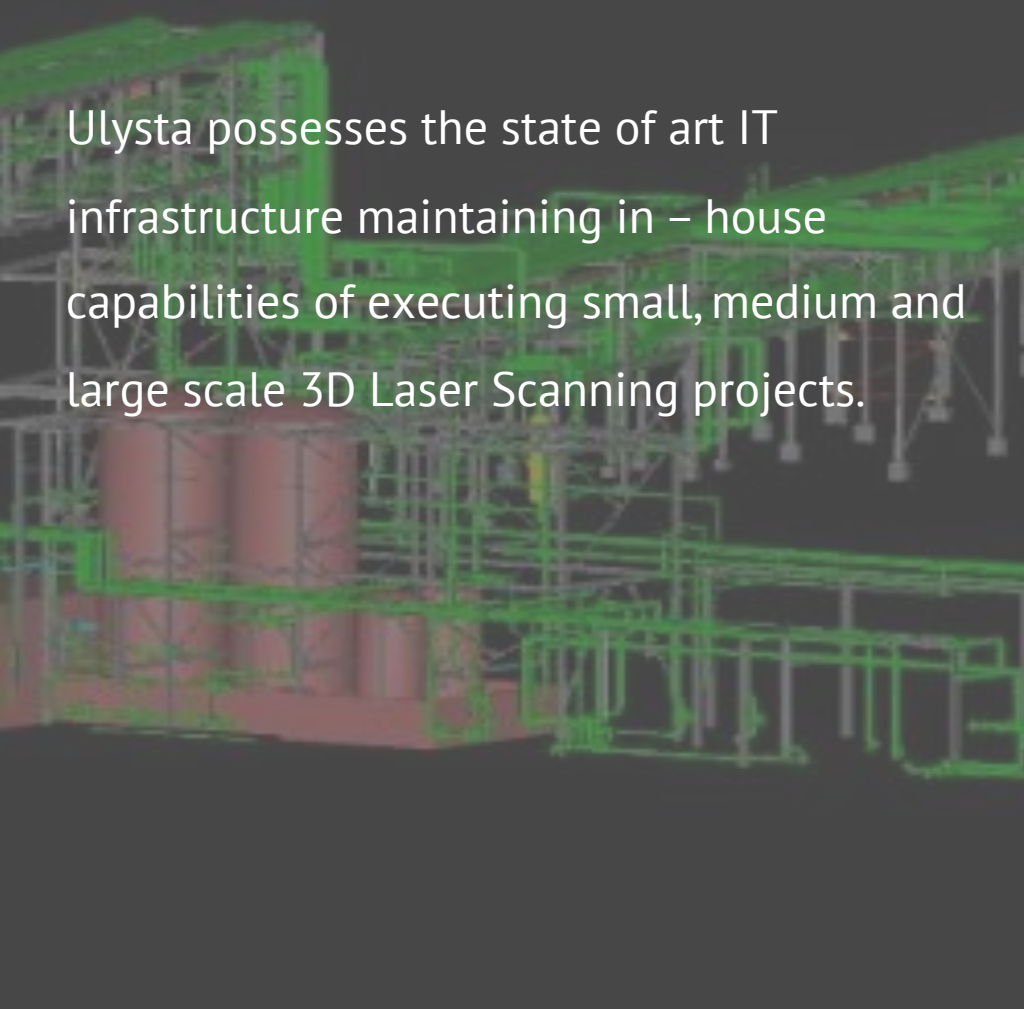
- 3D Laser Scanning
- Dimensional Control
- Data processing
- Clash Detection
- Conversion of Cloud data into fully intelligent 3D models on any platform.



Reverse engineering through laser scanning technology for the production of three- dimensional intelligent model with aggregated techniques (specifications, classes of online, documentation management, etc).

- Field Survey of the existing plant using laser scanner to obtain the "point cloud" model of the involved parts of the plant
- Implementation of layouts with panoramic views linked
- Implementation of the 3D CAD model from the "point cloud"
- Integration between 3D CAD model and line specifications to obtain the 3D model
- Field surveys to resolve discrepancies between model and documentation
- Extraction of the plant constructive drawings
- Extraction of the piping material lists (MTO)
- Check and update of the "as-built" status of existing key documents
- Import into the 3D CAD modelling system of the point clouds resulting from laser scanning to obtain the complete plant as-built model
- Reconstruction of the specifications and technical documentation of the plant
- Provision of technical information and documentation for changes and additions to plants

Laser Scanning Solutions



Ulysta possesses the state of art IT infrastructure maintaining in – house capabilities of executing small, medium and large scale 3D Laser Scanning projects.

Ulysta provides a wide range of solutions 3D Laser Scanning Technology:

- On-shore and off-shore 3D Laser Scanning
- Laser scanning of highways, bridges dams and hills
- Mining Survey
- Large Scale Reverse Engineering
- BIM
- UAV
 - Photogrammetry
 - LIDAR
- As-Built of Thermal Power Plants
- As-Built of Steel Plants
- 3D Scanning of Heritage Buildings

Laser Scanning Work Flow

DATA CAPTURING

DATA PROCESSING

COMPLETE POINT CLOUD

POINT CLOUD

3D AS-BUILT CYCLONE
/ LFM

TRUEVIEW/NETVIEW
PANORAMA IMAGES

3D AS-BUILT TRUE
SmartPlant

SmartPlant
CLOUDWORX

3D Laser Scanning Benefits



REDUCES MANUAL INTERVENTION

Laser scanner scans the object externally and gives the exact shapes and dimensions of the internal structures, manually dismantling the object can be avoided.

ACCURACY

Offers accurate data in time-critical situations.
Helps in managing inconsistencies and reduce errors.

EASY RE-DESIGNING

Since there is no need to de-construct if there is a flaw in the design, the 3D model scanned by the scanner can be used to redesign for future while promising better performance.

COST REDUCTION

As it is a time saving and manual effort saving technology, this process helps in reducing the cost.

VERSATILITY

3D laser scanners are equipped with latest technologies and are compatible with different platforms and devices. Hence this technology provides a great versatility.

INCREASED PRODUCTIVITY

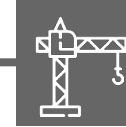
As 3D Laser Scanning needed lesser time to complete the task, it adds value in increasing the productivity.



Assistance To Owners for Engineering Activities

- Defining Engineering SOW's & SOP's
- Engineering Co-ordination & Management
- Vendor Technical Bid Evaluation
- Factory Acceptance Test & Inspection Services
- Field Engineering Activities
- Defining Set & Goals for Projects
- DCR Reviews

ENGINEERING ASSISTANCE



Assistance To Owners for Site Activities

- Work Assistance & Supervision
- Site Project Management & supervision
- Project Controls & Reporting
- Project Expediting
- Inspection of Materials & Quality Control
- Defining Set & Goals for Projects
- Site Installation & Commissioning Supervision
- Site SOP's Preparation
- Pre Commissioning & Commissioning Documents Preparation

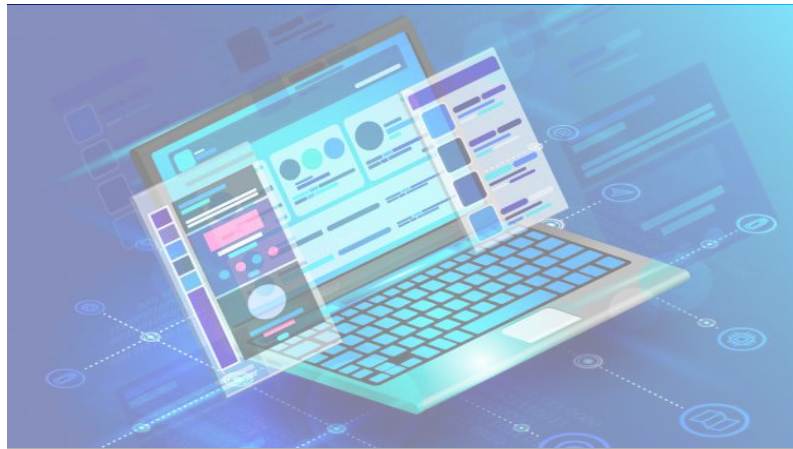
SITE ACTIVITIES ASSISTANCE



SOFTWARES IN COMMAND

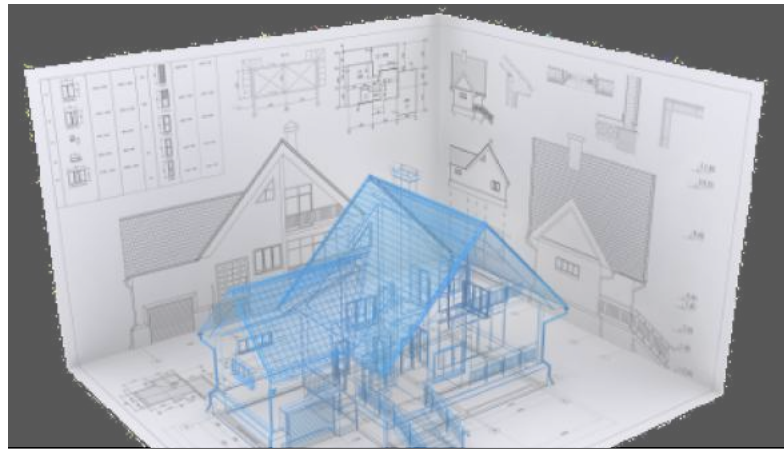
Software in Command

We are fully equipped with access to software licenses, hardware to perform Design Engineering, Computer Aided Drafting & Analysis and using applications such as:



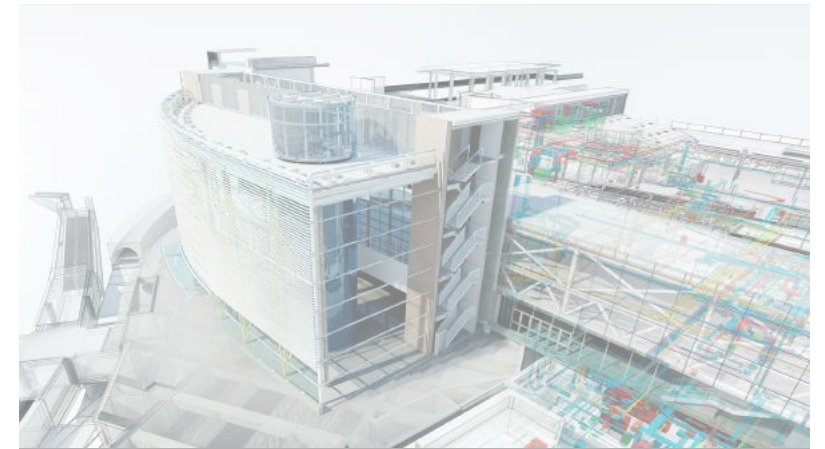
PDS3D, CADworx, SP3D, SPI
(INTOOLS), PDMS

DESIGN SOFTWARE



AutoCAD 2D, MicroStation

DRAFTING SOFTWARE



SmartPlant Review, Navisworks

REVIEW SOFTWARE



OUR CLIENTS

Our Clients



Our Clients

The DYNATEC logo, consisting of the word 'DYNATEC' in white capital letters on a green rectangular background.

DYNATEC

The logo for Uhde Inventa-Fischer, showing the company name in black text above a blue horizontal bar, with a small circular icon to the right.

Uhde Inventa-Fischer

ThyssenKrupp

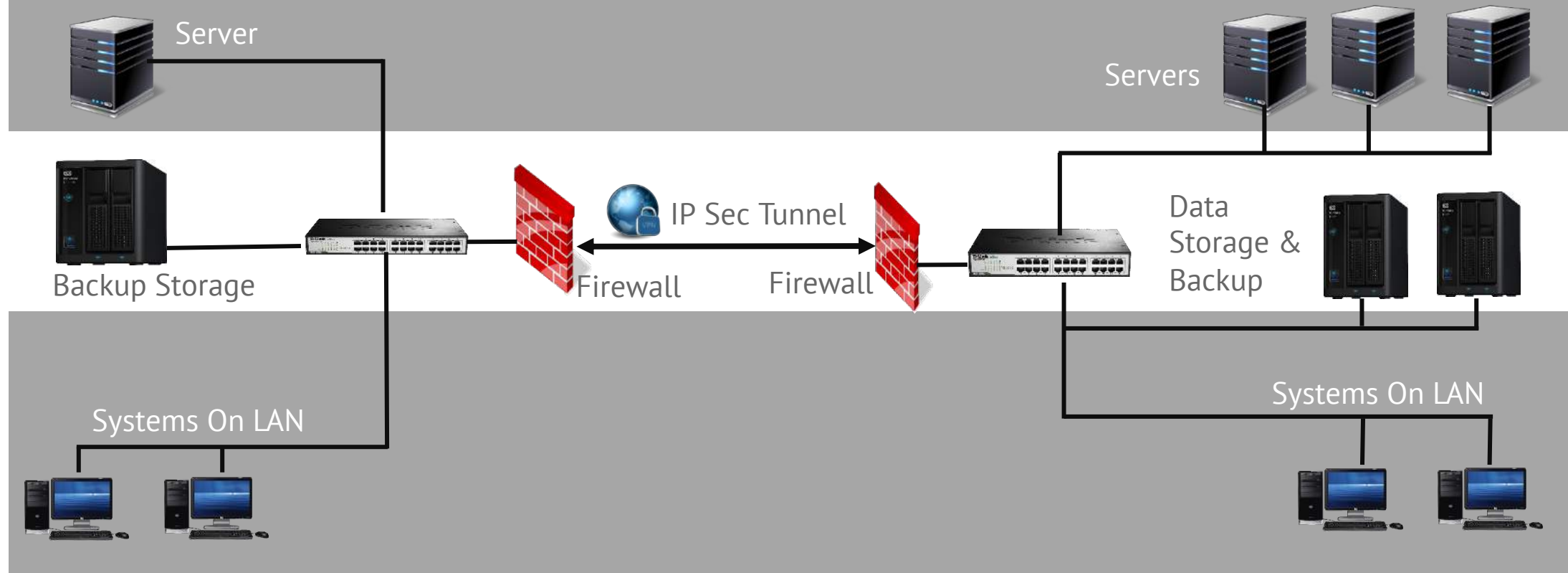




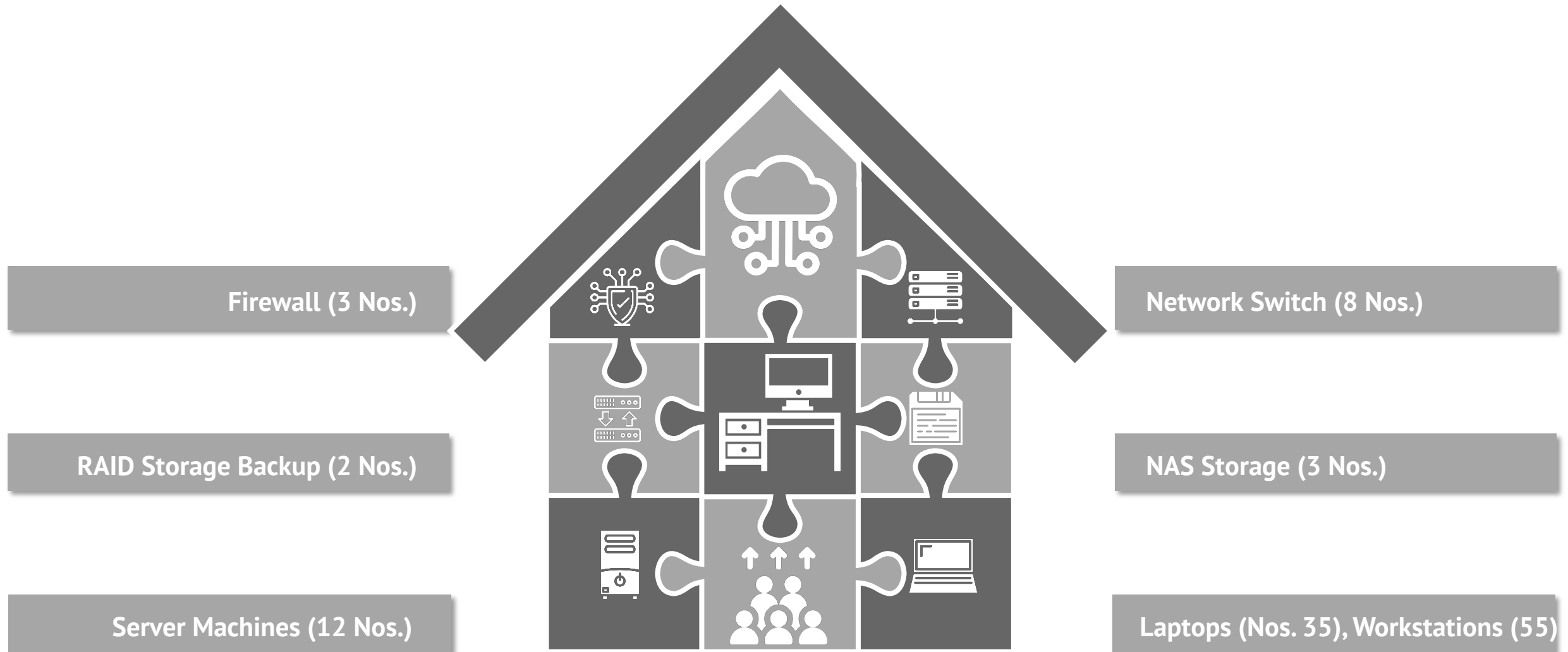
IT INFRASTRUCTURE & DATA SECURITY

Network Diagram

- State of the Art IT Infrastructure
- Flexible Server & Data Sharing Network Capable of Handling Mega Projects Data Exchange



Network Size



Protection from External Threat

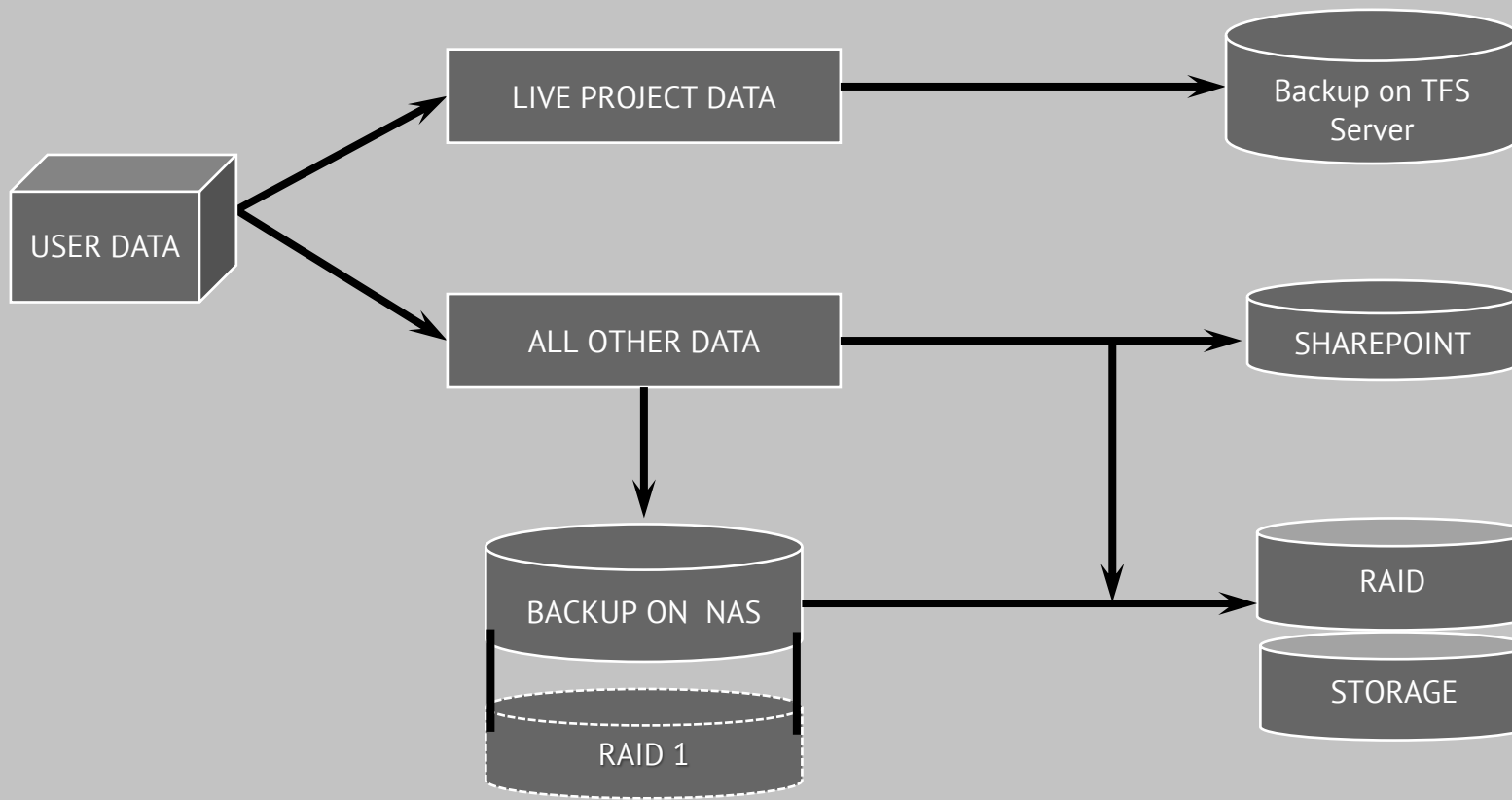
- All devices operate in Domain environment. no external device has access to any network resource.
- Antivirus in all systems and servers to protect data from malware, spyware, etc.
- USB disabled in all system to assure data breach.
- CD-ROM disabled in each system to assure data breach.
- Indian – Germany office connected through encrypted (IPsec VPN) connection that avoid any kind of data theft over internet.

Data Backup Assurance

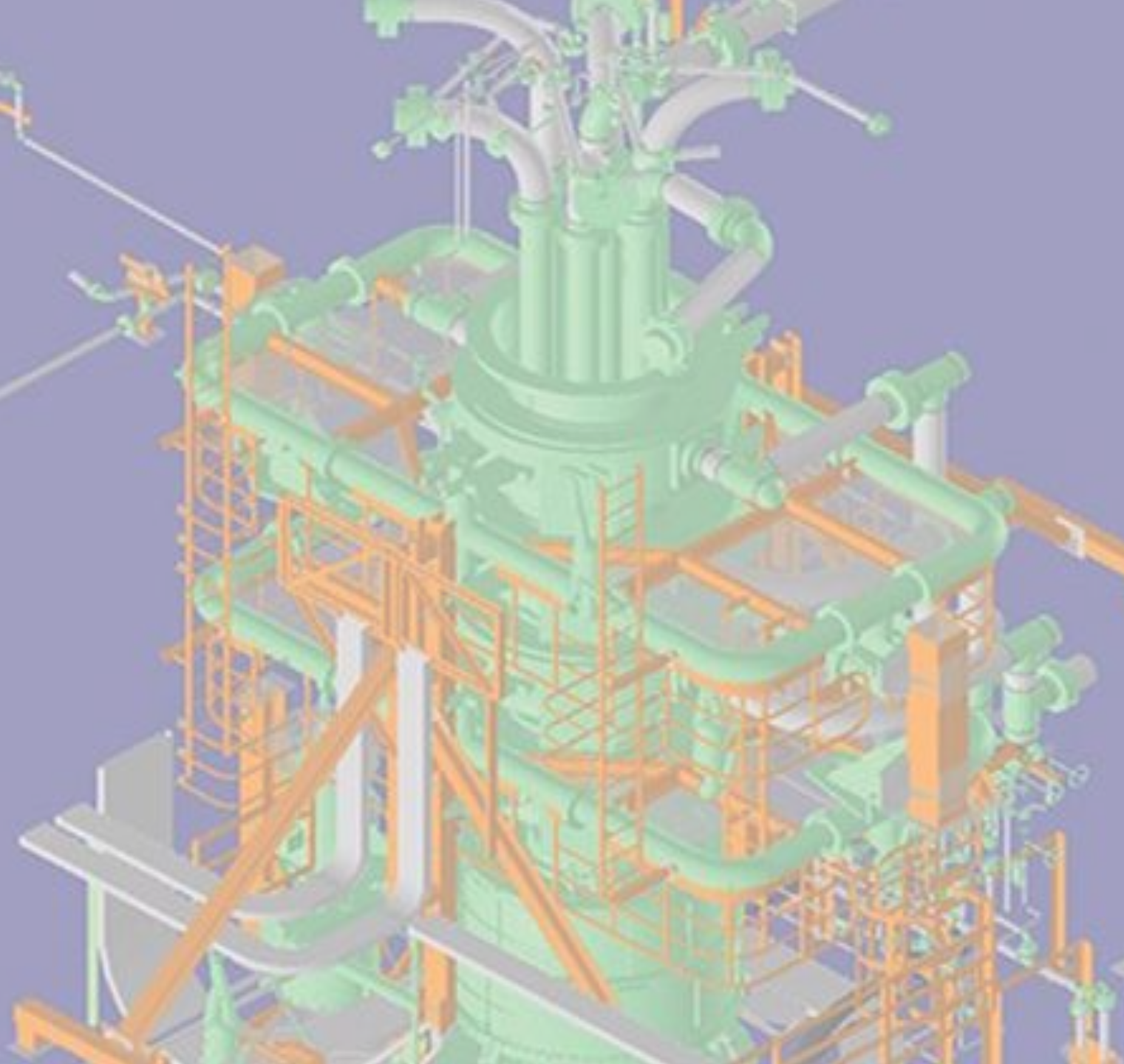


- Two hard disk in each system, separate for OS to save data in case window corrupt.
- Daily backup of system data on NAS
- RAID 1 NAS configuration to insure no real downtime if any Hard disk fail.
- Live Project data always save on TFS Server.
- NAS Data is backup/synchronized on RAID Storage everyday.
- Important files/documents saved to and share through SharePoint.
- Folder level security assigned to folders through OU.
- Large files are share through company Dropbox.

Data Backup Assurance Hierarchy



- Many employee work on live project, so all work is always saved on TFS server.
- In case any system fail, secondary HDD is switched to other system to resume work.
- All NAS are in RAID 1 mode means 2 copy of data always exist.



CASE STUDY

SPF

Case Study



- Provided a fully functional GAS system to meet all the requirements of document management system
- Integration of different SmartPlant Tools with SPF.
- Mapping of all SmartPlant tools to SPF and created component schema
- Consolidated mapping (CDW) of all SmartPlant tools into SPF, creating consolidate Schema.
- Restoring SPF Database for all SmartPlant Tools
- Registration and retrieving of PBS in SPF.
- Creating vault and using the client's server as host.
- Publishing PBS in SPF
- Import and validating the component schema
- Publishing TEF Data from all SmartPlant tools to SPF.



- Configuration of SPF 5.0/SPO using Excel Templates(.xslm)
- Defining Schema via ClassDef, InterfaceDef, RelDef, EdgeDef etc.
- Defining Admin and Data Templates and loading into Database
- Configuring & Customizing Ad-hoc reports
- Workflow Configuration
- Configuration of SPO CMIS Module on the top of SPO Core to manage documents coming from ITER DMS & Route them to SPC
- Customization of APIs (Client & Server) using Visual Studio 2013
- Troubleshooting of errors occurred from Development and Configuration



- Configuration & Customization of PBS in SPO.
- Defined Document Management System in SPO.
- Defined Tag Management System in SPO.
- Security Model System Architecture.
- Established Roles and Access Groups.
- Handled Changes Requests as per customer demand.
- Completed FAT and Handover process.



CASE STUDY

3D LASER SCAN

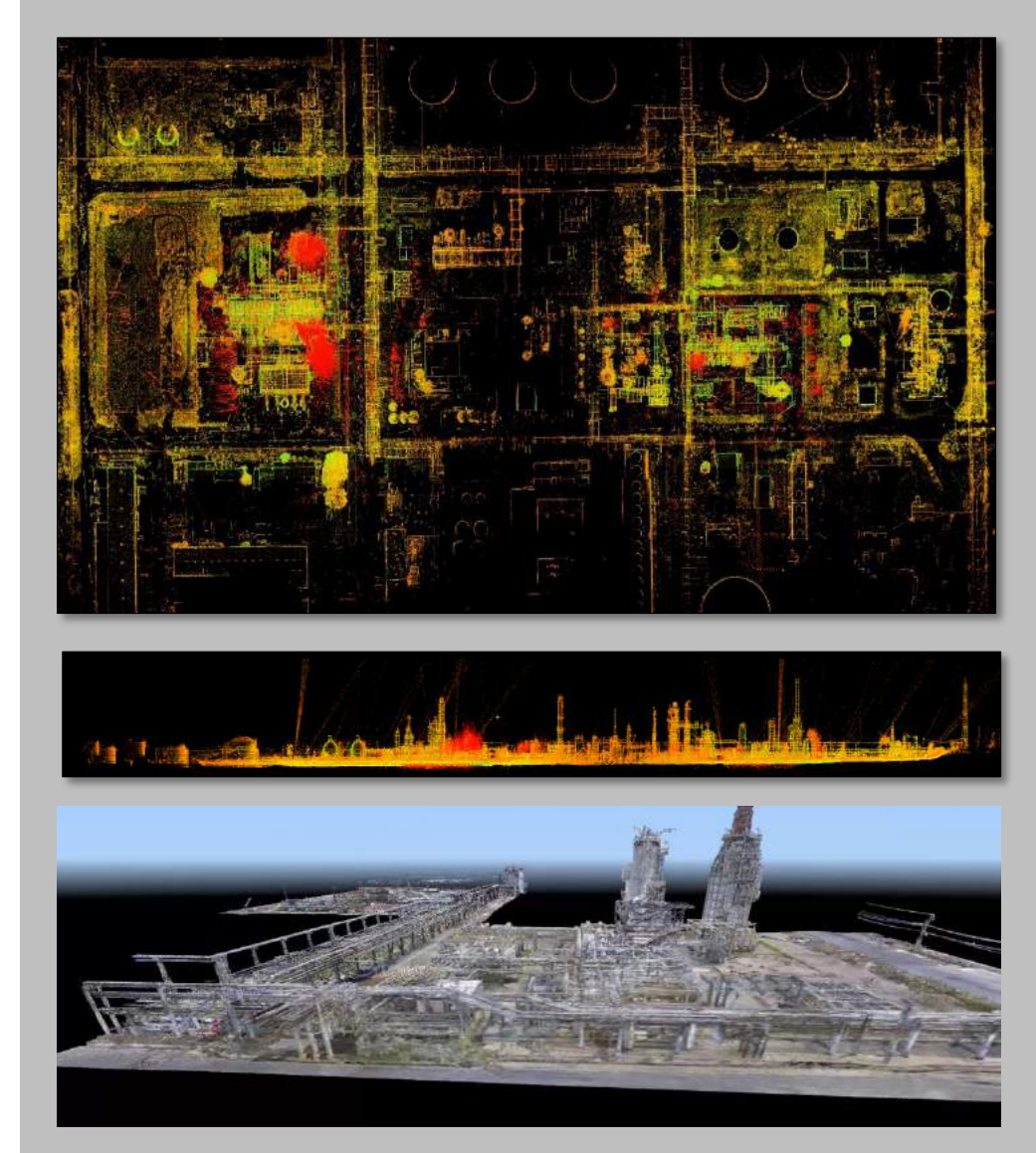
Case Study - 1

Project	OMV Refinery Schwechat, Austria
Area to be Scanned	600m x 180m x 60m
Scan Positions	475 Positions
Targets	410 Targets
Data Size	97.1 GB (Scanned Data)
Scan Resolution	4mm @ 10m

STEPS:

Creation of As-Build models from existing plant. The following steps were performed:

- Laser Scan of models (done by partner company)
- Import point clouds data to PDS and SP3D
- Redesign models based on point cloud geometry
- Created Isometric Drawings
- Modified P&ID's based on model
- Software's: Leica Cyclone, AutoCAD, Microstation,
- Photoshop, Cloudworx for SP3D.



Case Study - 2

Project	Bayernoil Refinery Ingolstadt, Germany
Size of Plant	2500 Pipelines
Scope of Work	Creation of As-Build models from existing plant

STEPS:

Creation of As-Build models from existing plant. The following steps where performed:

- Laser Scan of Plant (done by partner Laser Scanning company)
- Compare Point Cloud Data with existing models & modify with existing model
- Create isometric drawings Size of plant: 2500 pipelines



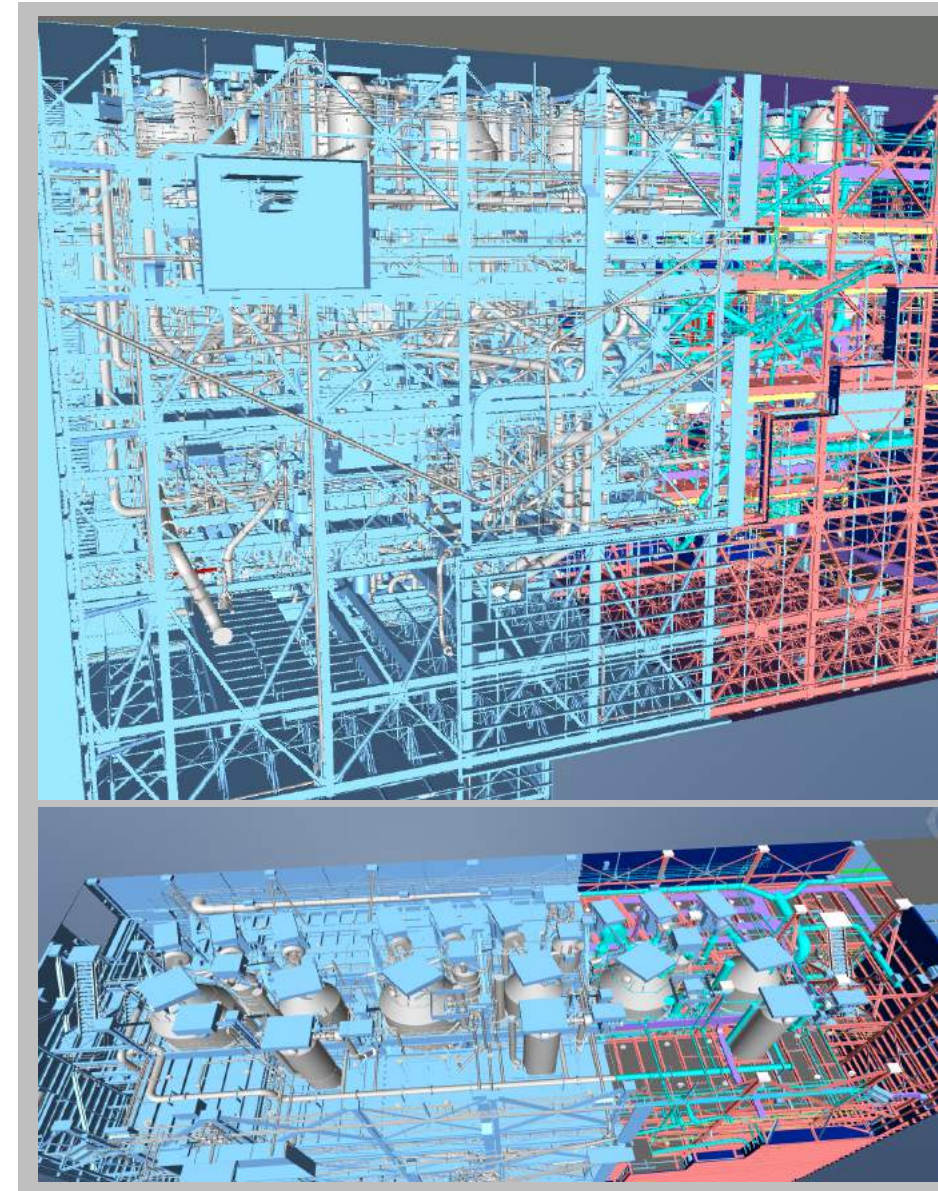
Case Study - 3

Project	Teck Coal Project
No. of Scans	320
Scope of Work	Conversion of Cloud Point Data to Cyclone Dump Model
Software Used	Cyclone

STEPS:

The following steps were performed:

- 3D mapping of structures and utilities objects such as pipes, cables etc.
- Delivery of Cyclone Dump Model
- Delivery of Cyclone files in COE format



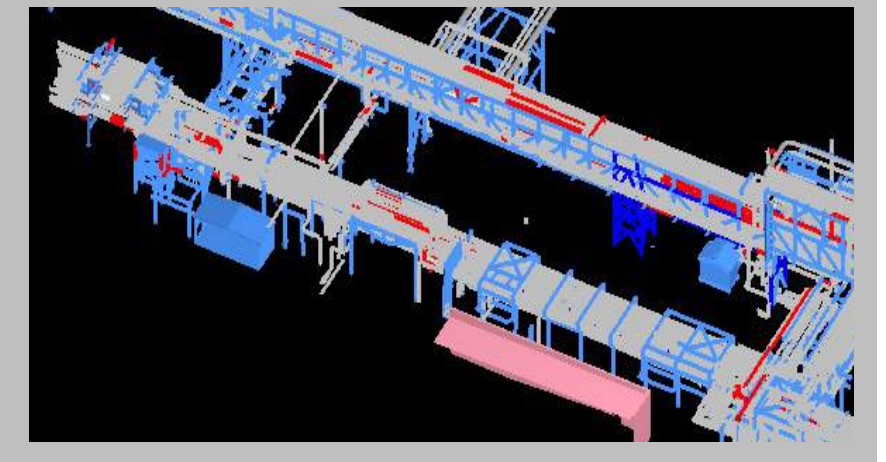
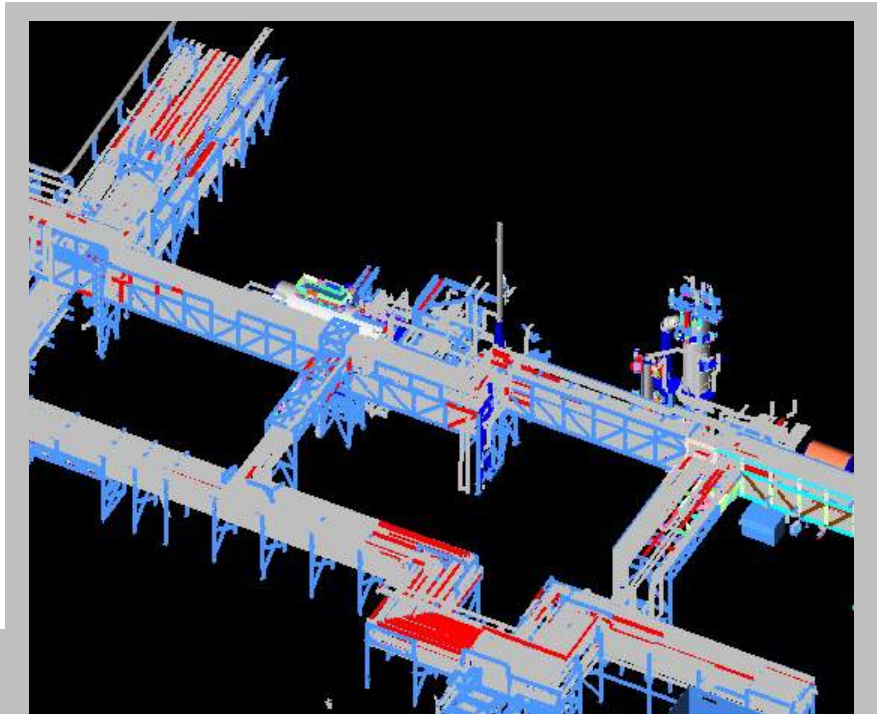
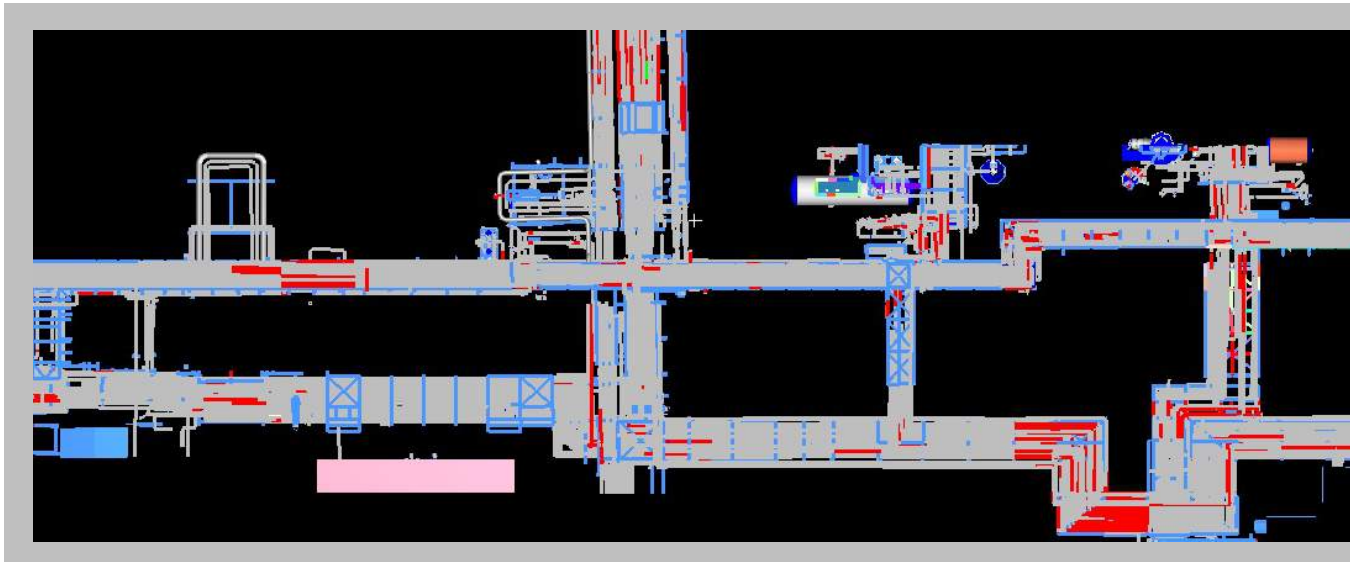
Case Study - 4

Project	Shell Deer Park Project (Ongoing)
Total Volume	10 KM Piperack
Software Used	Cyclone

STEPS:

The following steps where performed:

- Registration of Scan Data in Cyclone
- 3D mapping of structures and utilities objects such as pipes, cables etc.
- Delivery of Cyclone Dump Model
- Delivery of Cyclone files in COE format





CASE STUDY ENGINEERING PROJECTS

Case Study – 1 (P&ID Drafting & Publishing to SPF)



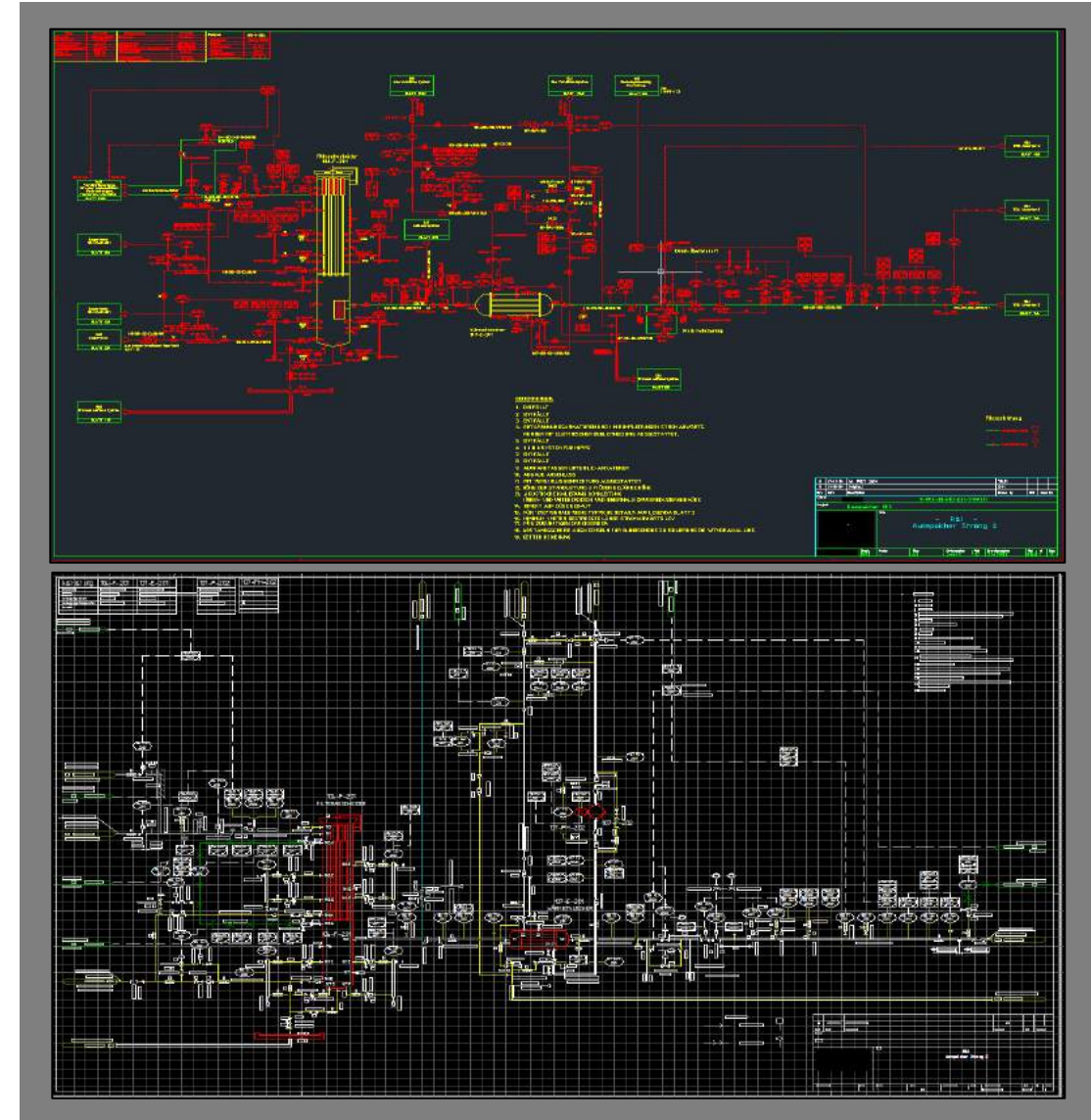
Client	Siemens India
Projects	<ol style="list-style-type: none">1. Jebel Ali Power Station M Extension (AE1338) : Water steam system, cooling and Auxiliary system P&ID2. WiryeCombined Heat & Power Plant (KR1025) : Water steam system, cooling and Auxiliary system P&ID3. Central TermoElectrica Guillermo Brown (AR1003) : Cooling and Auxiliary system P&ID
Scope of Work	<p>P&ID update using latest version of SPPID software.</p> <p>P&ID Intelligent work using SPG software.</p> <p>Data Publishing using SPF_V2009 software</p>

ROLES:

- Modification of P&ID using Smart Plant P&ID Software & Publishing in SPF software.
- Involve in every aspect of P&ID checking, development & modification
- Implementing mark ups from process engineers into P&IDs.
- Extracting & solving errors in basic reports like instrument, pipe run, equipment report etc.
- Resolving process data issues with process engineers
- Validation & Publishing in SPF

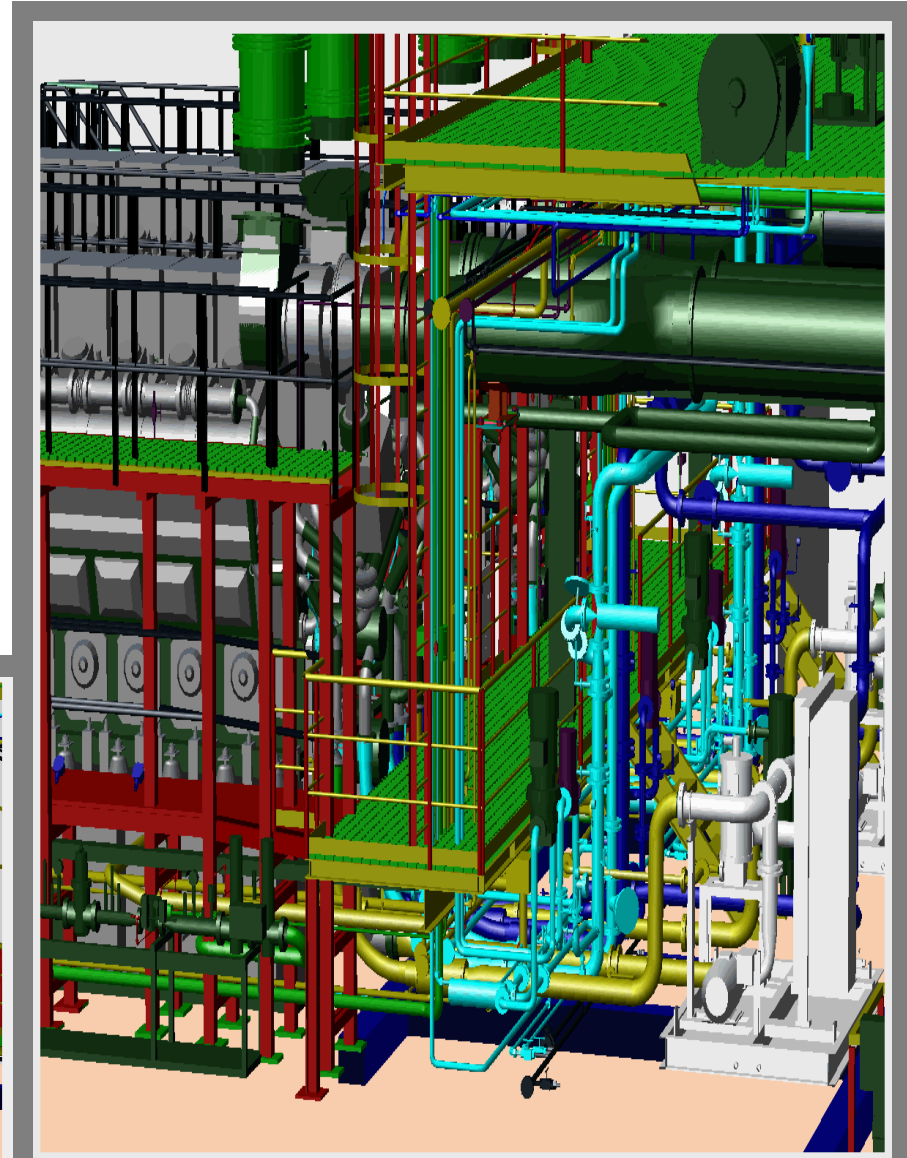
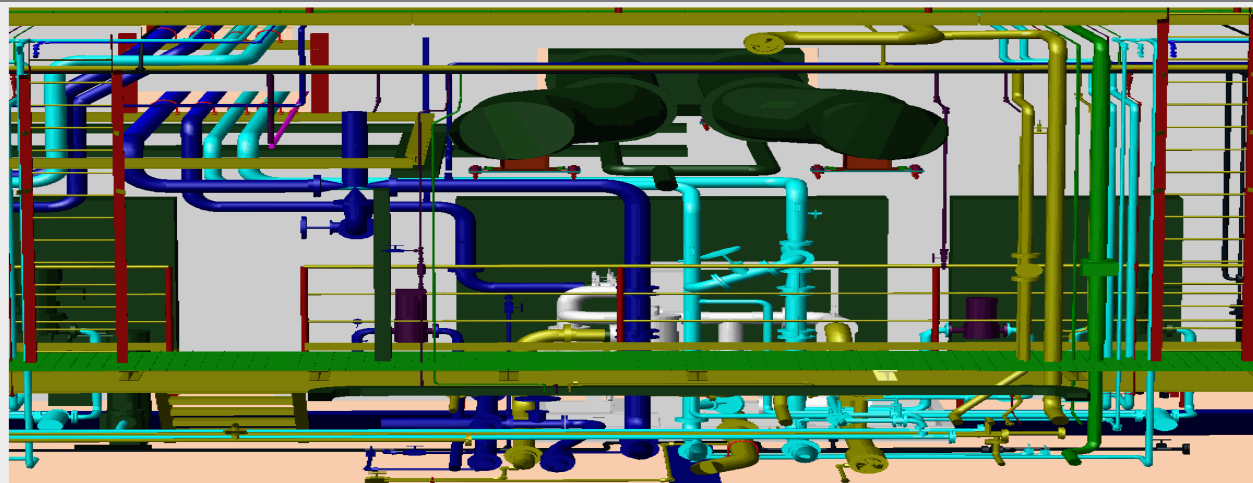
Case Study – 2 (P&ID Drafting & Publishing to SPF)

Project	Nuon, Intergraph (Holland)
Scope of Work	<p>Conversion of AutoCAD P&ID's to SPPID</p> <ul style="list-style-type: none">Quantities: 60 (AutoCAD Format)Project Setup (Intergraph – SPPID)Data Base: Oracle
Stages	<ul style="list-style-type: none">Template CreationManual Drafting of of AutoCad P&ID'sUpdating Red Markup comments from clientQuality CheckingDeliveryTraining & development



Case Study – 3 Detail Engineering

Project	MAN Diesel
Scope of Work	<ul style="list-style-type: none">• Preparation of design basis• Gas engine power plant Nueva Central Güemes II• Detail Engineering of Power House and Cooler Area• Planning of pipe routing• Scheduling the pipeline in the model• UG pipelines



Case Study – 4 (Detail Engineering)

Project: Uhde Inventa-Fischer AG:

Polyester plant projects: SAPPHIRE C-0986/C-1100 (Oman) C-4001 (USA):

Worked in PDS 3D for piping, steel structure, pipe supports, Equipment

- Schedule tracking, coordination of various trades, Isometric drawing and testing, evaluation/acceptance
- Pipeline development, customer support
- Design coordination
- Structural analysis with Caesar II & load specifications for pipe bridges
- Interpretation of special pipe supports (spring bracket, joint brace, etc.) and compensators

F. Hoffmann La Roche AG:

MAB-Pharma project Monoclonal Antibody

- Detailed planning with PDS 3D : Piping, steel structure, pipe supports, equipment drawing
- Schedule tracking, coordination of various disciplines
- Isometric generation, drawing inspection & evaluation
- Design Coordination & Project Management

Case Study – 1 (Piping Stress Analysis)



Project: Piping Stress Analysis
Client: Petro Process System, Singapore
Engineering Contractor: Worley Parsons

Project Scope:

Pipe Stress Analysis using CAESAR II, of the Pre Treatment Skid of SEPAREX MEMBRANE System. The analysis was performed to obtain:

1. The piping system stress distribution
2. Component displacement
3. Various Support loads / reactions
4. Nozzle loads
5. Hydro test load cases and their combinations through the entire life of the piping system.

Inputs Received:

1. Critical line list, Legend sheet for abbreviations
2. System marked up P&ID.
3. Isometrics & Piping Material Specification (PMS)
4. Vendor drawings for all the equipment's like HE, pumps, tanks, scrubber, KO drum, compressor, vendor valve and all as listed in critical line list.
5. Support standard & Flexibility analysis design basis.
6. Units of measure for creating .FIL and .cfg file.

Case Study – 5 (Piping Stress Analysis)

Deliverables

- CAESAR input file(.C2)
- CAESAR output report
- Support marked up isometrics.

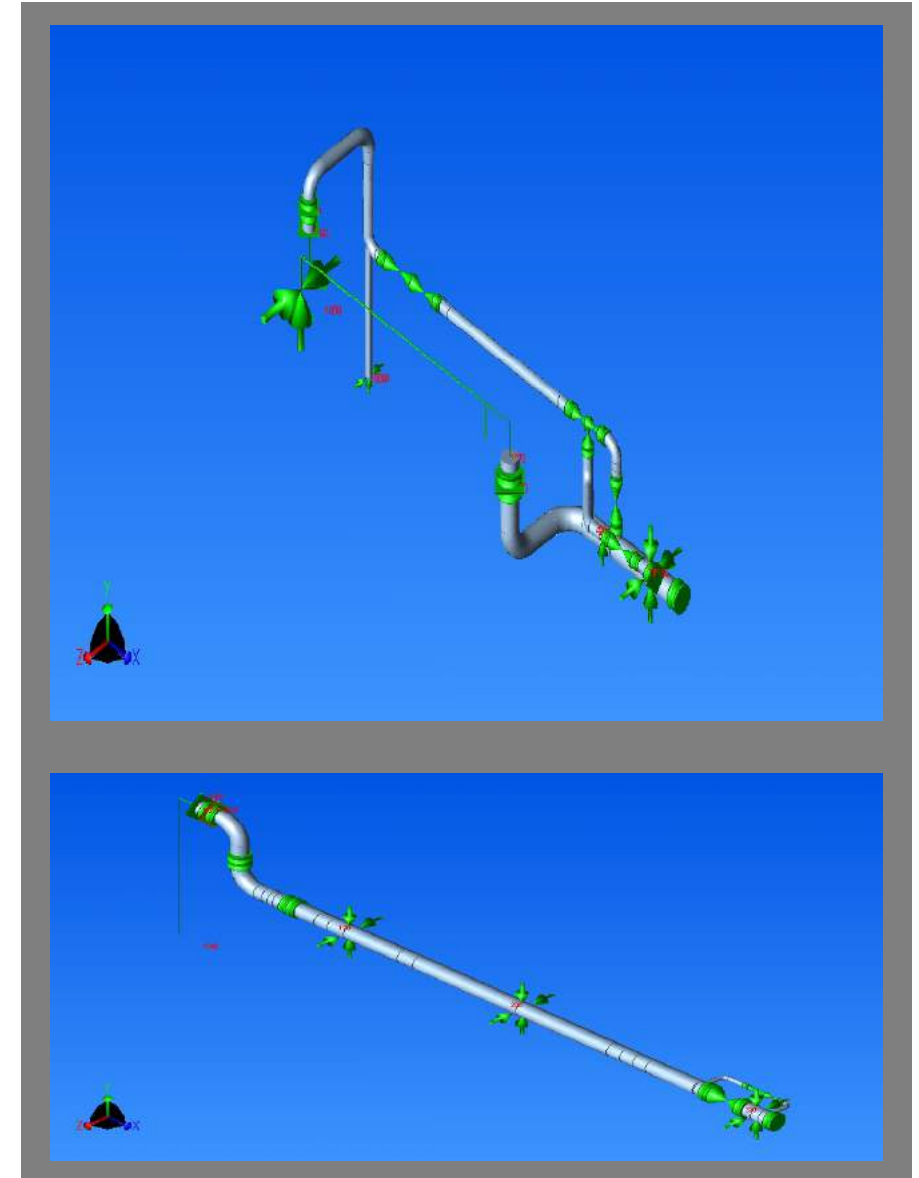
Project Duration – 3 Weeks

Tools Used:

- CAESAR 2 V 5.30
- NavisWorks (For model Review)

Standards:

- ASME B 31.3
- For Equipment Nozzle Qualification API 610, API 661



Conversion of PDF Markups - SPPID

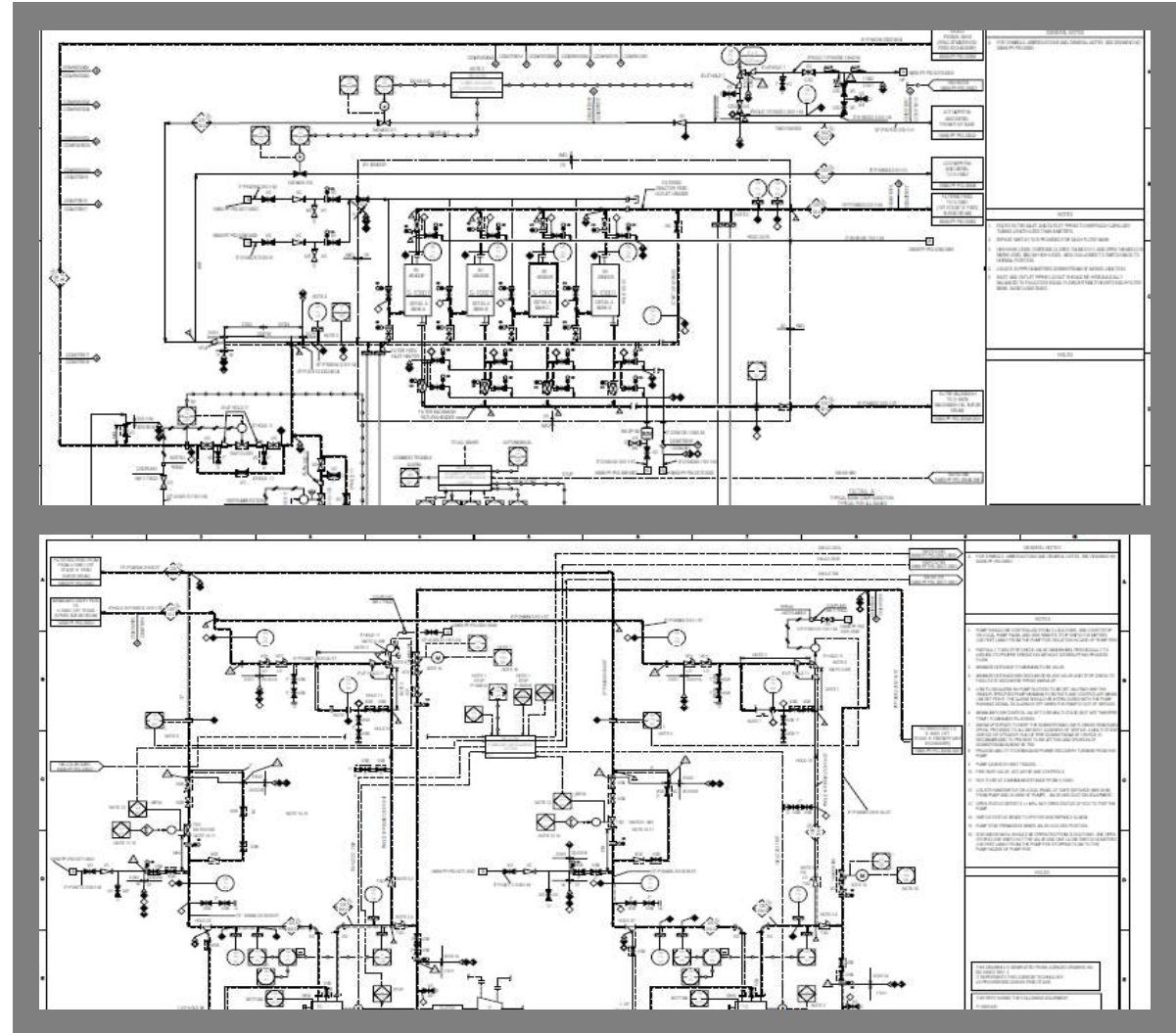
Client: Paros Consulting SRL, Italy

Main Client: Petrofec

Engineering Contractor: Worley Parsons

Project Scope:

1. Templet creation
2. Manual drafting of P&ID's
3. Updating red mark-up comments from client
4. Quality checking
5. Phase-wise delivery of P&ID's



Detailed Civil & Structural Engineering



Client: Jhajjar Power Plant, Haryana

Project Name: Detail Civil & Structural Engineering Services for Silo Staircase for Jhajjar Power Plant

Project Scope:

1. Consultancy Service and structural design for Silo Staircase of 40 M Height from Ground Level
2. Plant visit, job study and survey the area to check feasibility and proper measurement
3. Preparation of Design Concept
4. Detailed Civil & Structural Design & Drawings Development
5. Detailed Estimate & BOQ of Project
6. Site Visits, quality checks and Supervision
7. Software Used: STAAD Pro & AutoCAD

Deliverables:

1. Design reports of structures Foundations.
2. GA & Reinforcement drawings of structures
3. GA & Construction Drawing preparation
4. Drawing wise BOQ for Main Items like PCC & RCC & Reinforcement for Civil works.
5. BOM
6. Detailed cost estimate of project



CASE STUDY

EPC & PMC SERVICES

Case Study 1 (Site Supervision & Construction Support)



Project Name: Site Supervision & Construction Support
Project Scope: Site Supervision & Construction Support for Boiler Canopy Steel Structure, GHANA
Client: J&P Engineering Ghana Ltd
End client: Cargill Cocoa B.V.
Project duration: 3 months
Team Size: 15

Project Scope:

Cargill Cocoa intended to build a new boiler room next to the existing boiler room, on their cocoa plant in Ghana, in the “free” zone of Tema. This boiler room consist of biomass boiler installation. The installation supported by a concrete footing, which is placed on a foundation soil. Over the installation a 14 metres high canopy, which is supported by a steel frame (columns and beams). An existing chimney, with a height of 30 metres and founded on a slab of 1.5×1.5 metres. Located in the southwest corner of the new boiler room and erection and commissioning amidst the new construction.

Case Study 1 (Site Supervision & Construction Support)



The complete scope:

1. Establishing proper communication with Client on the status of Steel Structure manufacturing.
 - Managing all Construction and Installation Which follows:
 - Construction of new Boiler Room building and Boiler Equipment.
 - Installation of Electrical Wires and Earthing.
2. Construction of Sprinkler Installation.
3. Inspection of material received & during assembly.
4. Inspection of Boiler Building Construction and Testing as per Contract Norms and Guidelines. As per schedule prepared by the Vendor and approved by Client.
5. Verification of Construction on Factory Inspection Certificates, Test Reports and Welding Quality Report which was provided by Client.
6. Drawing review, comments and approval, Final test report review and approval with "APPROVED" stamping.
7. Final inspection of new Boiler room construction and approval from Cargill Cocoa.

Case Study 1 (Site Supervision & Construction Support)



Case Study 2 (Inspection & Expediting Services)



Project Name: Inspection & Expediting Services
Project Scope: Inspection & Expediting services for high pressure process pumps (sulzer make)
Client: Dynatec S.A, Madrid, Spain
End client: Inetic Plantas Industrial, S.A.U.,(a Tecnicas Reunidas group company), Madrid, Spain

Description of the overall project and scope definition:

Project: Volgograd Refinery, Russia, Lukoil, Russia
EPC: TR Group (Initec Industrial), Spain
Units: Hydrocracker, Hydrogen Unit, Sulphur Recovery Unit
Licensors: UOP, Haldor Topsoe, Fluor corporation
Number of pumps: 64, Sulzer make pumps with associated instrumentation..
Project duration: 6 months
Status: Completed (July 2014)

Project Scope:

Initec, Spain has placed Total 64 Nos. of PUMPS for various capacities with Sulzer Pumps India Ltd and desire to keep track of manufacturing schedule, expedite and carry out routine inspection of completed pump which includes assembly with Instrumentation and related piping and accessories. We certify and stamp approved the complete manufacturing cycle till packaging and dispatch to Russia at site..

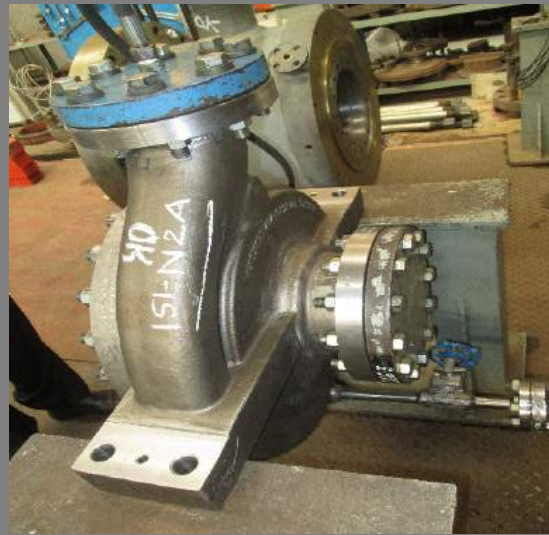
Case Study 2 (Site Supervision & Construction Support)



The complete scope:

1. Establishing proper communication with Vendor on the status of each pump manufactured.
2. Expediting all material related to the complete pump manufacturing cycle (from Raw material procurement of Sub-Vendors : Like Pump Casing, Instruments, Electrical Motors, Piping, Control panel and Accessories, Rings, Gaskets etc.)
3. Reporting of Status
 - Expediting Report - Fortnight Basis
 - Inspection Report - Fortnight Basis and depending on the Inspection Schedule presented by the Vendor (Sulzer Pumps, Mumbai)
4. Inspection of material received & during assembly.
5. Inspection of all Pump Testing as per API 610 Norms and Guidelines.
6. Review of all testing reports as per schedule.
7. Verification of all certification received from Sub-Vendors (Casing supplier, Electrical Motor, Control Panel, Instruments, accessories, spare parts etc.)
8. Verification of all certification received from Vendor (Sulzer Pumps, Mumbai, India)
9. Drawing review, comments and approval, Final test report review and approval with "APPROVED" stamping
10. Final inspection for packaging and shipping post approval and go ahead from Initec.

Case Study 2 (Site Supervision & Construction Support)



Case Study 3 (Detail Engineering Services - OHT)



Project Name: Detail Engineering and Project Management Services for Overhead Tank

Client: Jhajjar Power Plant, Haryana, India

Project Scope:

1. Consultancy services and structural design for overhead tank of capacity 200 CUM
2. Site visit, study and site survey for checking the feasibility along with proper measurements.
3. Preparation of design concept
4. Detail design and drawing development
5. Preparation of BOQ and detailed cost estimation of the project
6. Regular site visits, quality checks and site supervision

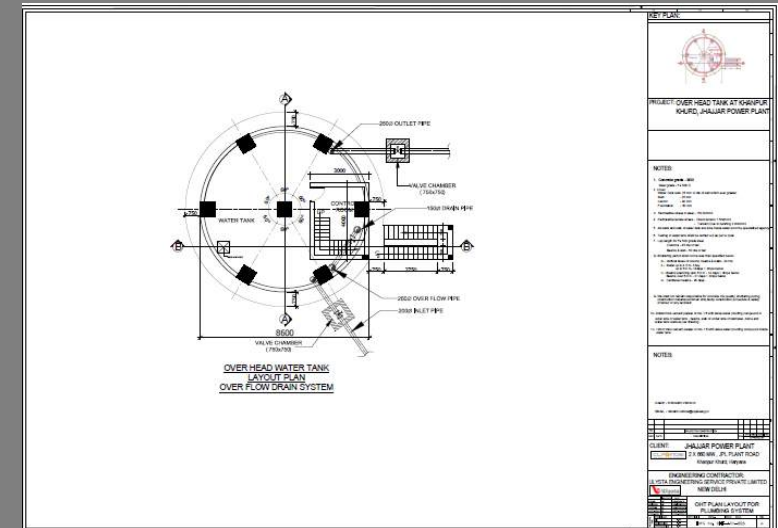
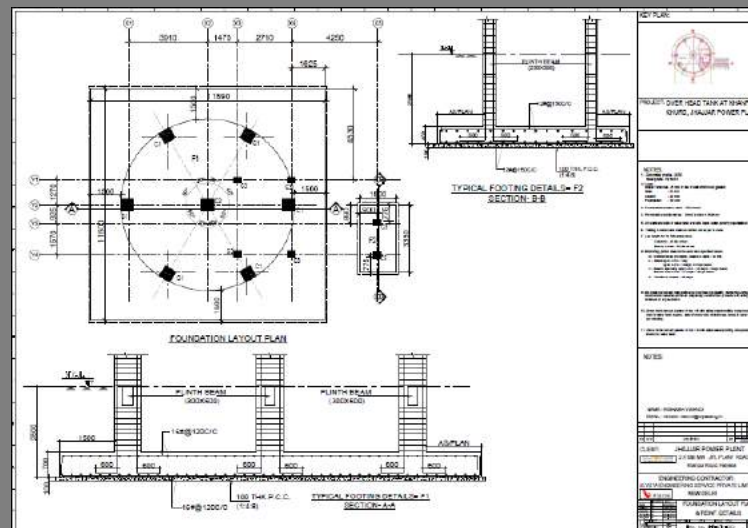
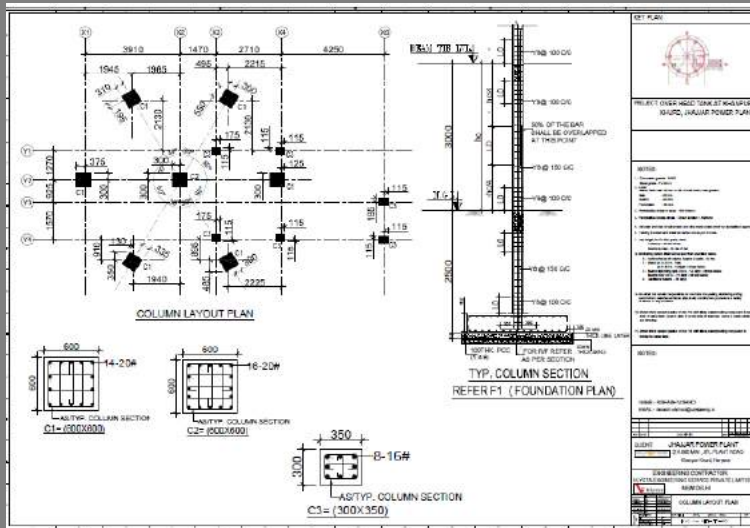
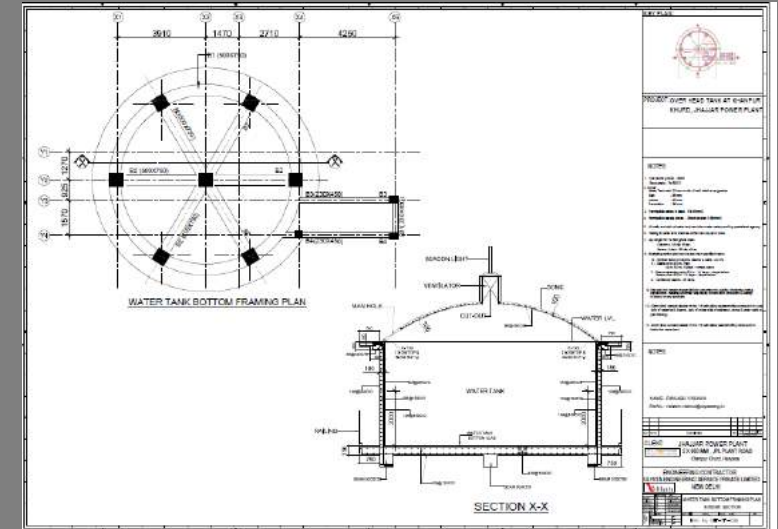
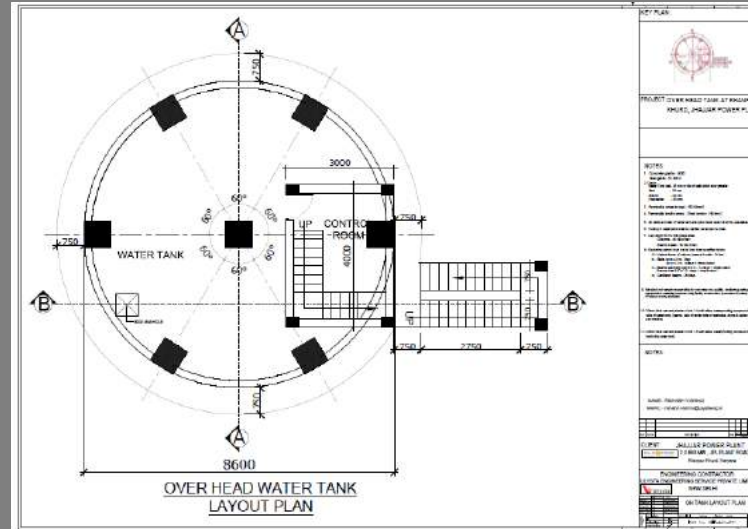
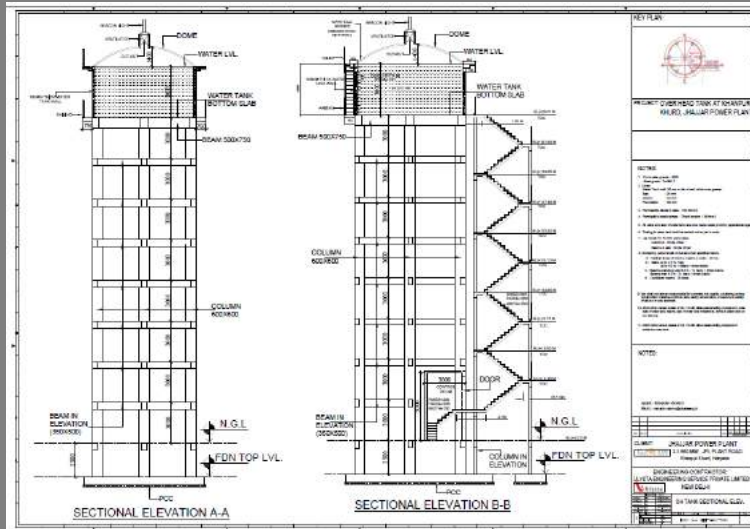
Deliverables:

1. Design reports of structure foundations
2. GA and reinforcement drawings of structure
3. GA and IFC drawings preparation
4. Drawing wise BOQ for main items like PCC & RCC reinforcement for civil works
5. Complete BOM
6. Detailed estimate of project

Software Used:

1. STAAD Pro
2. AutoCAD

Case Study 3 (Detail Engineering Services - OHT)



Case Study 4 (EPC Services)



Project: Engineering, Procurement & Construction of Canteen Building with Complete Infrastructure at Jhajjar Power Plant (2x660 MW)

Client: Jhajjar Power Plant, Haryana, India

Scope of Work:

Engineering, design, supply, procurement, installation and commissioning of Canteen Building with below scope:

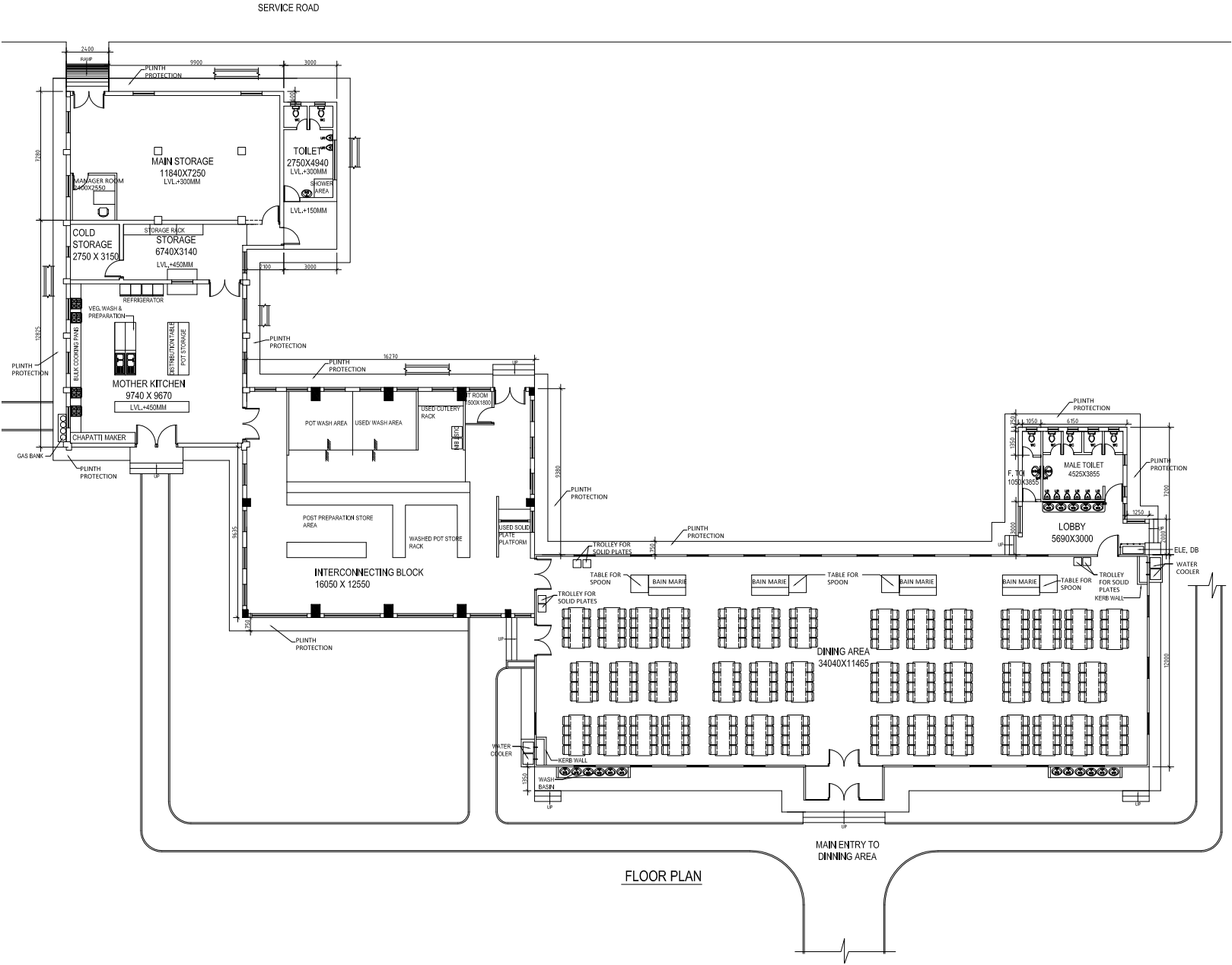
- Civil and structural construction
- Mechanical construction and Plumbing works
- Electrical Installation
- Complete infrastructure and development of canteen building to accommodate 1000 JPL's personnel.
- Facility has a total build-up and developed area of approx. 10000 sq. ft. involving architectural, civil, structural, electrical & plumbing design followed by JPL complied construction works.

Team:

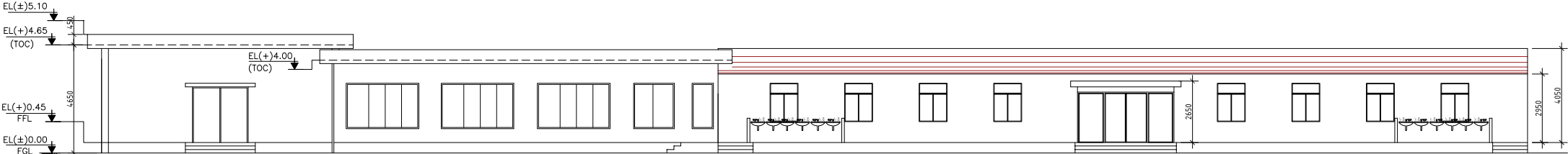
This project was carried out by a team of about 92 personnel, involving:

- Construction Head
- Project Manager
- Quality Inspector & HSE Personnel
- Supervisors (each discipline)
- Unskilled Manpower

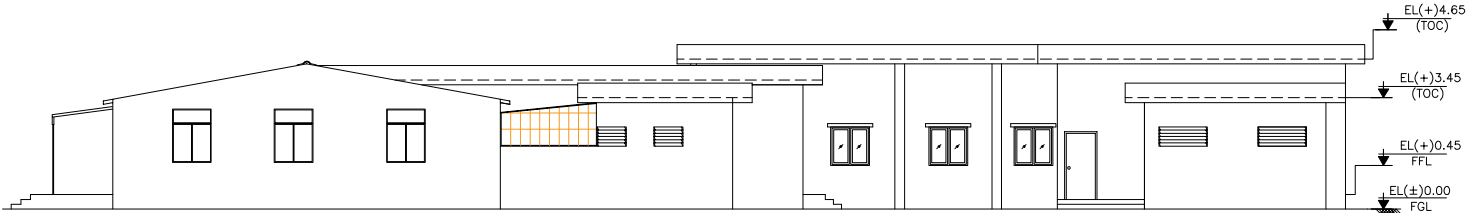
Case Study 4 (EPC Services) – Floor Plan



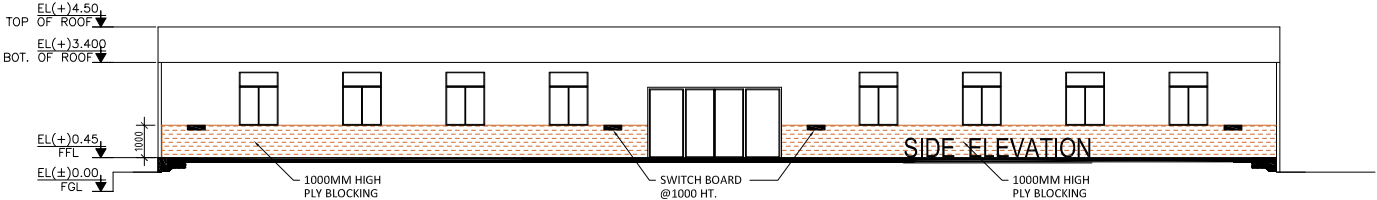
Case Study 4 (EPC Services) – Section Plan



FRONT ELEVATION

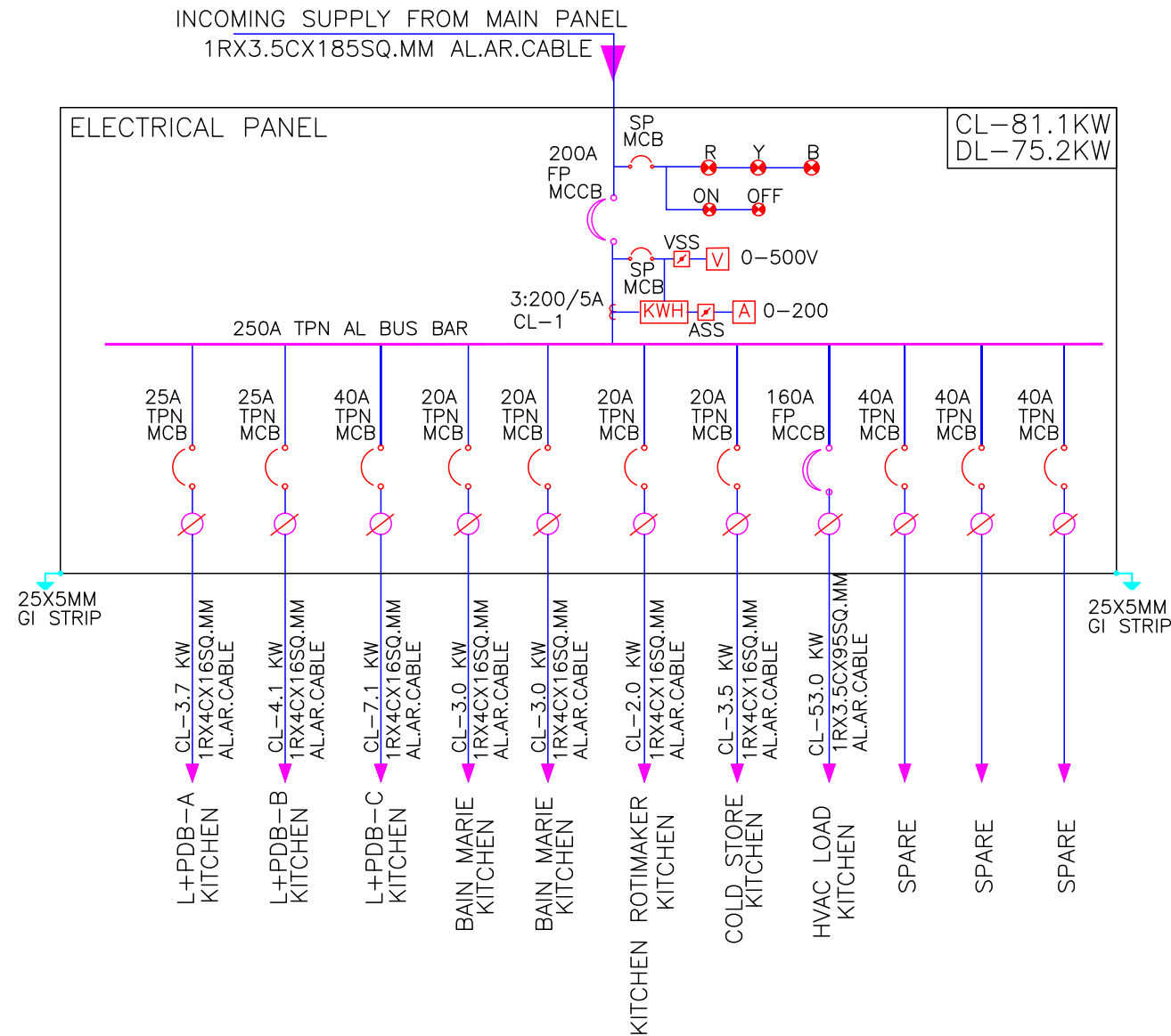


SIDE ELEVATION



SECTIONAL ELEVATION
OF DINNING AREA

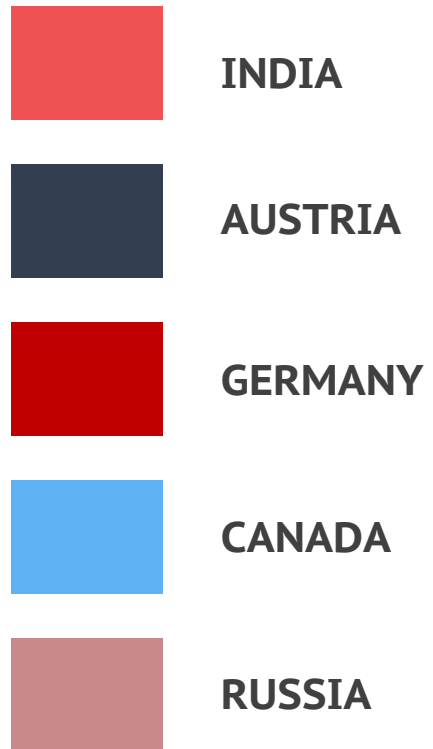
Case Study 4 (EPC Services) – Electrical SLD



Case Study 4 (EPC Services)



Locations



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