A large offshore oil rig is shown in the middle of the ocean under a cloudy, overcast sky. The rig's complex steel structure is silhouetted against the horizon. The water is dark and calm. A semi-transparent blue horizontal band is overlaid across the middle of the image, containing the main text.

Comprehensive Structural Engineering Solutions with Tekla Structures



Your One-Stop Solution for Structural Engineering Excellence

At Transvigour Supplies, we specialize in delivering comprehensive structural engineering solutions powered by Tekla Structures, an advanced software for 3D modeling, detailing, and fabrication. With a team of highly skilled structural engineers and detailers, we provide precise, efficient, and cost-effective engineering solutions for the oil and gas, construction, and energy sectors.

Our expertise spans detailed structural steel modeling, connection design, shop drawings, erection drawings, and advanced procurement support, ensuring that projects are executed with accuracy, speed, and adherence to international standards.

Our Tekla Services

We create highly accurate 3D models for structural steel, concrete structures, and complex assemblies, ensuring precision at every stage of the project.

3D Modeling and Structural Detailing

Parametric and intelligent 3D modeling for improved coordination and clash detection



Integration of real-world conditions to enhance fabrication and construction efficiency



Advanced visualization for structural analysis and pre-construction assessment





Connection Design and Detailing

Our expertise in **connection design and detailing** ensures strong, safe, and structurally sound assemblies compliant with **AISC, BS, IS, and CISC standards**.

- Optimized connection designs to enhance structural integrity
- Detailed engineering reports with calculations, analysis, and GA drawings
- Comprehensive 3D visualizations to aid fabrication and installation



Shop Drawings and Fabrication Support

We provide precise shop drawings essential for fabrication, ensuring **seamless coordination between engineering and production teams.**

- Comprehensive fabrication drawings including dimensions, material specifications, and assembly instructions
- Automatic generation of Numerical Control (NC) files for CNC machines, reducing human error and improving efficiency
- Material optimization strategies to minimize waste and enhance cost savings

Erection and Assembly Drawings

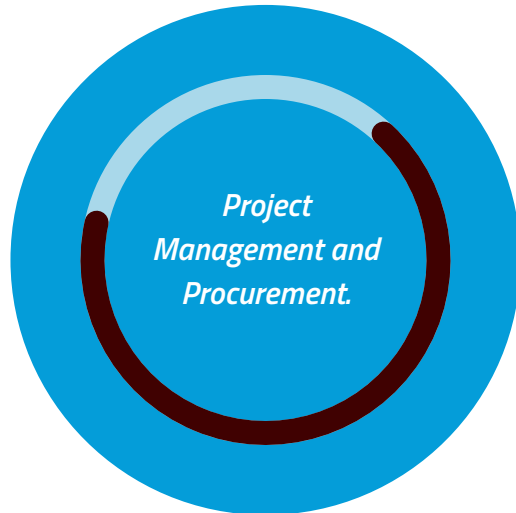
Our detailed erection and assembly drawings help in **accurate on-site construction and installation.**



- **Clear, easy-to-understand erection drawings** for efficient assembly
- **Anchor bolt placement drawings** ensuring precision in foundation work
- **Step-by-step assembly sequencing** to improve project coordination

Customizable Reports and Documentation

We offer a range of customized reports and documentation to streamline project management and procurement.



- Assembly lists, part lists, and bolt summaries for efficient material tracking
- Advance procurement Bills of Quantities (BOQs) for early material acquisition
- Project-specific documentation tailored to meet unique client requirements

Advanced Procurement Support



*Clients optimize
their supply
chain*


Reduce delays

- Detailed BOQs for better cost estimation and material planning
- Pre-ordered component tracking for reduced lead times and smoother workflows
- Integration with procurement management systems for real-time tracking

DXF and NC File Generation

We provide **DXF and NC files** for seamless digital fabrication and automated processes.

- DXF files for 2D drafting and cutting machines
- NC files for CNC machine compatibility, improving automation in fabrication
- Format compatibility with industry-standard fabrication software




*At **Transvigour Supplies**, we understand the critical role that **computer-aided manufacturing (CAM)** plays in modern structural engineering. To streamline the **fabrication process and ensure seamless integration with automated machinery**, we provide **high-precision DXF and NC file generation services**.*



Project-Specific Customization

Our flexible and adaptable services allow us to customize solutions based on **project-specific requirements**.

- Customized reporting and documentation based on project needs
- Specialized detailing and modeling services for unique structures
- Seamless integration with BIM and other engineering workflows



Why Choose Transvigour Supplies?

At **Transvigour Supplies**, we are committed to delivering **exceptional quality, precision, and efficiency** in every project. Our structured workflow and industry expertise make us a trusted partner in the engineering and construction sector.

Highly Skilled and Experienced Team

Our team consists of **seasoned engineers, structural detailers, and project managers** with deep industry expertise, ensuring superior project execution.

Compliance with Global Standards

Our designs adhere to **AISC, BS, IS, and CISC** standards, ensuring compliance with international regulations and industry best practices.



Rapid Turnaround and Scalable Execution



We have an **efficient project management system**, ensuring **timely delivery without compromising quality**. Our modular approach allows us to scale resources based on project size and complexity.



Cutting-Edge Technology and Industry Software

We leverage the latest industry tools, including



Tekla Structures for
advanced 3D modeling
and detailing



AutoCAD & Bluebeam
for accurate drafting and
documentation



Idea Statica for
connection design and
analysis





Modular Workflow for Quality Assurance

We have **dedicated teams** for detailing, checking, and project management, ensuring

Error-free detailing
with multiple levels of
verification

Efficient communication
between design, detailing,
and fabrication teams

Strict adherence to
project deadlines

01

Industrial Structures

Conveyor towers, equipment platforms,
and steel galleries
Heavy industrial buildings for
manufacturing and processing

Oil & Gas Facilities

Pipe racks, offshore platforms, chemical
plants
Structural supports for industrial
equipment

02

Commercial and Residential Buildings

Shopping malls, hospitals, schools, and
office buildings
High-rise structures with complex steel
frameworks

03

Large-Scale Infrastructure

Stadiums, bridges, and railway stations
Multi-level parking structures and airport
terminals

04

Applications of Our Tekla Services

Our **Tekla-based engineering solutions** are widely used in **various industries** for complex projects, including:

Our Commitment to Excellence

At **Transvigour Supplies**, we focus on **delivering world-class structural engineering solutions** with an emphasis on:

- **Precision** Highly accurate detailing and modeling to eliminate errors
- **Efficiency** Optimized workflows to ensure fast turnaround times
- **Innovation** Integration of the latest technology to improve performance
- **Client Satisfaction** Tailored solutions to meet specific project needs





We pride ourselves on being a trusted partner for structural engineering projects across the oil & gas, construction, and energy sectors. Whether it's a small-scale residential project or a large industrial infrastructure, we ensure the highest level of accuracy, quality, and reliability.

Partner with Transvigour Supplies – Streamlined Energy Solutions



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An aerial photograph of an offshore oil rig in the middle of a large body of water. The sun is low on the horizon to the right, creating a bright reflection on the water's surface. The sky is filled with soft, white clouds. In the background, a small coastal town is visible on the left, and rolling green hills extend to the horizon. A semi-transparent blue banner is positioned horizontally across the middle of the image, containing the text "Thank You !".

Thank You !