

# Engineering Services:-

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We deliver **comprehensive engineering design and technical services** aligned with international codes, industry best practices, and project-specific requirements. Our engineering teams support clients globally by providing **accurate, constructible, and cost-optimized designs**, while allowing clients to retain full control over procurement and construction execution.

## ❖ Engineering Scope of Services (sos):-

### ✚ **Front-End Engineering;**

- Conceptual studies, feasibility assessments, and design basis development
- Process flow diagrams (PFDs) and preliminary layouts
- Technical calculations and system sizing
- Design philosophies and engineering standards alignment

### ✚ **Detailed Engineering & Design Development;**

- Multidisciplinary detailed engineering (civil, structural, mechanical, piping, electrical, and instrumentation)
- Load calculations, stress analysis, and compliance checks
- Issued-for-Construction (IFC) drawings and design deliverables
- Equipment specifications, datasheets, and vendor document review

### ✚ **Digital Engineering, CAD & BIM;**

- Advanced 2D drafting and 3D modeling
- BIM-based coordination and clash detection
- Model-driven quantity take-offs (MTO/BOQ)
- As-built documentation and digital handover packages

### ✚ **Engineering Assurance & Project Support;**

- Design reviews, validation and value engineering studies
- Constructability and operability assessments
- Technical support during procurement, fabrication, and construction phases
- Engineering change management and documentation control

### **Standards & Compliance;**

Our engineering deliverables comply with recognized international standards, including but not limited to:

- ISO, ASME, API, IEC, IEEE
- Euro codes, ACI, AISC, BS
- NDA, IP protection laws, ISO/IEC 27001.
- Project-specific client and regulatory requirements

### **Industry Expertise;**

We support engineering projects across multiple industries:

- Power & renewable energy
- Oil & gas and process industries
- Industrial and manufacturing facilities
- Infrastructure and utilities
- Commercial and residential developments

### **Delivery Approach;**

We operate as an **integrated extension of the client's engineering organization**, applying robust quality control processes, structured review cycles, and disciplined document management to ensure technical excellence and schedule adherence.