

SLETEC Engineering Capability Statement

Engineering Design | Project Documents | Manufacturing Support

Client-ready engineering support for oil & gas, industrial products, manufacturing packages and project teams: 2D/3D drawings, calculations, FEA/CFD/CAE, reverse engineering, redline/as-built, MOS, NMR/MDR, MTO/BOQ/BOM and fabrication support.

- Oil & Gas / Plant Engineering
- API / ASME Tanks, Equipment & Skids
- 2D / 3D Drawings, Models & Isometrics
- FEA / CFD / CAE and Design Review
- MOS, NMR/MDR, ITP/QCP and Dossiers
- Manufacturing, Redline and As-built Support

76+

engineering project references

55+

technical evidence pages

2D+3D

drawings, models and isometrics

API/ASME

tanks, equipment and piping

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Engineering Design

- Piping, mechanical, civil and structural design support.
- 2D GA/detail drawings, shop drawings, sections, layouts and isometrics.
- 3D models, reverse engineering, redesign, redline and as-built records.

Analysis & Calculations

- Design calculations, FEA/CFD/CAE support and technical review.
- Stress, thermal, modal, fatigue, buckling, lifting and support checks.
- Practical verification for equipment, structures, skids and site modifications.

Core Offer Summary

- Single-point engineering support from RFQ to handover.
- Practical drawings aligned with fabrication and site execution.
- Strong reverse engineering, redline/as-built and document control support.
- Flexible support for KSA, India and international projects.

Products / Systems

- Oil and gas plant support, tank farms, utilities and industrial facilities.
- API tanks, ASME equipment, vessels, silos, hoppers, skids and platforms.
- Concrete batching plants, conveyors, bucket elevators, mixers and scales.

Project Documents

- MOS, method statements, NMR/MDR, ITP/QCP, datasheets and TQ/RFI replies.
- MTO, BOQ, BOM, item lists, material schedules and procurement backup.
- Final dossiers, document registers, transmittals and client review closeout.

API

tank and equipment support

ASME

piping and equipment basis

Deliverables Clients Receive

2D drawings

3D models

GA / detail drawings

Isometrics

Calculations

FEA / CFD notes

Reverse engineering

Redline updates

MOS

NMR / MDR

MTO / BOQ / BOM

Final dossiers

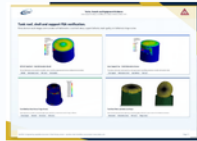
Portfolio Project Image Evidence

Images are taken from the portfolio and arranged as short, professional project evidence cards.



P10 API Tank 3D Model

Shell, roof, stair, platform and nozzle layout.



P11 Tank FEA Review

Shell, roof and equipment stress verification.



P12 Fabrication Package

GA/details, MTO and weld-support evidence.



P13 Reverse Engineering

Models, site inputs and validation records.



P14 Tank / Vessel Studies

Lifting, support and modification analysis.



P15 Civil Foundation

Layouts, sections and calculation notes.



P16 Fabrication Drawings

Support steel, weld details and MTO backup.



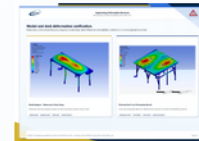
P17 CFD Process Review

Flow, particle and unloading verification.



P18 FEA Structural Study

Fatigue, stress and load-case checks.



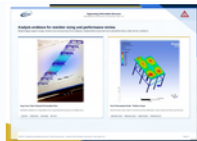
P19 Modal / Deck Review

Platform/canopy stability and deformation.



P20 Simulation Validation

Stress/deformation client-review evidence.



P21 Analysis Evidence

Thermal, lifting and performance review.



P22 Plant Support Package

Equipment supports and drawing extracts.



P23 Fabrication Sketches

Revision records and technical details.



P24 Manufacturing Support

Access platform and shop drawing evidence.



P25 GA / Data Package

Site layouts, notes and drawing set.



P26 Structural Integrity

Integrity and stress verification outputs.



P27 Vessel Component

Shell, thermal and pressure checks.



P28 CFD Exhaust Process

Ventilation, flow and process review.



P29 CFD / Thermal Study

Velocity, pressure-drop and process checks.

Project/client names are kept concise or anonymized for public sharing while retaining real visual engineering evidence from the portfolio.

Portfolio Project Image Evidence

Images are taken from the portfolio and arranged as short, professional project evidence cards.

 P30 Materials Review Models, details and calculation extracts.	 P31 References 01-04 Selected anonymized engineering cases.	 P32 References 05-08 Selected anonymized engineering cases.	 P33 References 09-12 Selected anonymized engineering cases.	 P34 References 13-16 Selected anonymized engineering cases.	 P35 References 17-20 Selected anonymized engineering cases.
 P36 References 21-24 Selected anonymized engineering cases.	 P37 References 25-28 Selected anonymized engineering cases.	 P38 References 29-32 Selected anonymized engineering cases.	 P39 References 33-36 Selected anonymized engineering cases.	 P40 References 37-40 Selected anonymized engineering cases.	 P41 References 41-44 Selected anonymized engineering cases.
 P42 References 45-48 Selected anonymized engineering cases.	 P43 References 49-52 Selected anonymized engineering cases.	 P44 References 53-56 Selected anonymized engineering cases.	 P45 References 57-60 Selected anonymized engineering cases.	 P46 References 61-64 Selected anonymized engineering cases.	 P47 References 65-68 Selected anonymized engineering cases.
 P48 References 69-72 Selected anonymized engineering cases.	 P49 References 73-76 Selected anonymized engineering cases.	 P50 Final Reference Sheet Additional project evidence and image set.	 P56 Batching Plant Overview Wet/dry plants, 30-260 m3/hr design range.	 P57 Batching Plant Isometric 3D capacity, equipment and layout details.	 P58 Batching Plant GA Detail 2D layout, sections, notes and MTO backup.

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Document Support

MOS

Method statements and execution documents.

NMR / MDR

Manufacturing data records and project packs.

ITP / QCP

Inspection, QA/QC and control plan support.

MTO / BOQ / BOM

Quantity take-off and procurement backup.

Redline / As-built

Revision updates, registers and final records.

Dossier

Transmittals, indexes and closeout handover.

Standards / Basis

● API

API 650 / 653 tank support, inspection and modification documentation.

● ASME

B31.3, B16.5 and equipment/piping package support where applicable.

● AWS / AISC

Structural steel, platforms, fabrication and shop drawing support.

● ASTM / ISO

Material notes, tolerances, document control and quality records.

● Client Specs

Owner, EPC, Aramco/SABIC/project specs when issued for the scope.

Why Clients Choose SLETEC

- Engineering support from RFQ to manufacturing and handover.
- Readable drawings and documents for site/fabrication teams.
- Strong support for reverse engineering, redesign and as-built.
- Fast project-document preparation for client submission.

Contact for Project Enquiries

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