A DIVISION OF
SPECX TECHNOLOGIES PVT. LTD.



EPCC

TECHNOLOGY BROCHURE · 2026

EPCC PROJECT EXECUTION

ENGINEERING · PROCUREMENT · CONSTRUCTION · COMMISSIONING

Turnkey project delivery under one agreement: design, equipment supply, construction, installation and commissioning.

- Process engineering & P&IDs
- Mechanical & fabrication design
- Civil & structural design
- Electrical & instrumentation
- Procurement & expediting
- Erection, commissioning & handover

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ENGINEERING · PROCUREMENT · CONSTRUCTION · COMMISSIONING

ONE PARTY ACCOUNTABLE, FROM CONCEPT TO PRODUCTION

Building a process plant involves dozens of vendors, several engineering disciplines and many site contractors. When each is hired separately, the owner carries the risk at every interface. Under an EPCC contract, a single company designs the plant, buys and builds the equipment, erects it on site and brings it into operation.

HiTorq delivers each technology in this catalogue this way. The owner deals with one project team, one schedule and one party responsible for the plant meeting its agreed performance.



FIG. 10.1 PROCESS EQUIPMENT FABRICATION IN THE WORKSHOP (ILLUSTRATIVE)

HOW A PROJECT RUNS

E
Engineering
Process design, then detailed drawings for every discipline

P
Procurement
Specifications, vendor selection, expediting, inspection

C
Construction
Fabrication, civil works, erection, piping and wiring

C
Commissioning
Checks, start-up, performance trial, training

\+
Support
Operation assistance and spares on request

HOW WE WORK

01
Fit to purpose
Each design starts from your feedstock, site and budget.

02
Product-led
The quality you need to sell drives the engineering.

03
Value engineered
Choices weighed on capital and operating cost together.

04
Here after handover
Service, spares and upgrades for the life of the plant.

GROUP FABRICATION

BUILT IN OUR OWN WORKSHOPS

Process equipment is fabricated by our group company **Shree Shakti Engg Works** at two manufacturing units in Gujarat: reactors, heat exchangers, storage tanks, U-stamp pressure vessels and complete turnkey packages. Project offices in Bharuch, Vadodara, Mumbai and Noida.

ENGINEERING SCOPE

EVERY DISCIPLINE, UNDER ONE ROOF

Detailed engineering turns a process concept into documents that fabricators, vendors and site teams can build from. The outline below shows the typical coverage of each discipline; the exact document list is agreed for every project.

PROCESS

- Design basis and process flow diagrams
- Heat and mass balances
- Piping and instrument diagrams
- Equipment sizing and process data sheets
- Utility and chemical consumption
- Operating philosophy

MECHANICAL & PIPING

- Vessel, exchanger and tank design
- General arrangement and fabrication drawings
- Pump, agitator and package specifications
- Plot plan and piping layout
- Isometrics and material take-off
- Surface protection and insulation

CIVIL & STRUCTURAL

- Site grading and drainage
- Equipment and building foundations
- Steel structures and platforms
- Pipe racks and cable trenches
- Tank farm bunds and pads
- Access stairs and walkways

ELECTRICAL

- Power distribution and single-line diagrams
- Load summary and transformer sizing
- Motor control centres
- Hazardous area classification
- Earthing and lightning protection
- Cabling and plant lighting

AUTOMATION

- Control philosophy and interlocks
- Instrument selection and hook-ups
- PLC / DCS programming
- Operator screens and alarms
- Signal lists and loop checks
- Factory and site acceptance tests

AT HANDOVER

The owner receives as-built drawings, equipment documentation, operating and maintenance manuals, test certificates and commissioning records.

Design, equipment, erection and start-up, signed off by one team. That is what EPCC should mean.

LET'S TALK ABOUT YOUR PLANT

FROM A FEED SAMPLE TO A RUNNING PLANT.

Share your feedstock, the products you want and the capacity you have in mind. Our process team will come back with a technical route, a block flow diagram and the next steps.

01 · Send

Feed details

Feedstock type, source, analysis if available, and the volume you expect per day.

02 · Define

Target products

The grades or cuts you need, the quality they must meet, and site constraints.

03 · Receive

Technical proposal

Process route, equipment scope and an execution plan for your review.

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Xtending Engineering Possibilities

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