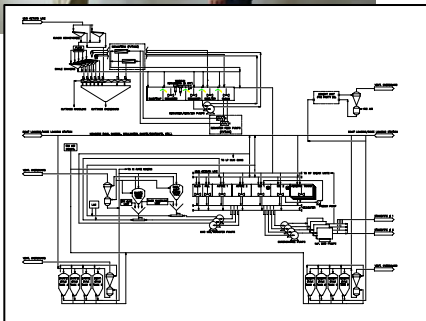
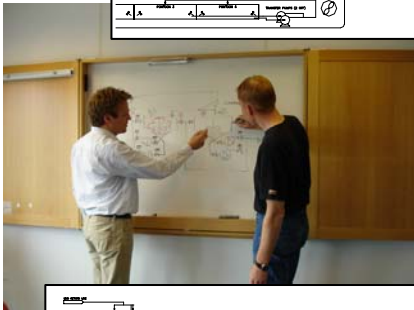
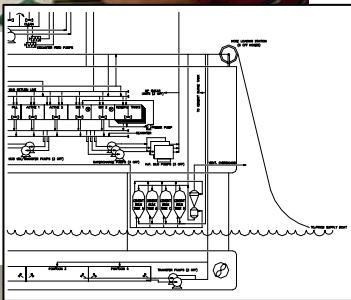


## Engineering Support Team

**“GET IT RIGHT THE FIRST TIME – A STEP IN THE RIGHT DIRECTION”.**

Design your mud system the optimum way the first time by involving engineers with a vast product knowledge accompanied by mud process understanding from many years experience. Product “know how” in combination with system design experience is an excellent combination to ensure optimum performance of the selected equipment. STEP Offshore engineers can assist you through our experienced Engineering Support Teams.



STEP Offshore AS is a competitive and focused supplier of high quality systems for drilling fluid applications to offshore oil and gas projects world wide.

We shall provide an effective and efficient project management and supply our clients with the highest quality products the industry has to offer.

This product flyer covers our standard unit. We will also, on request, offer a wide range of variations and project specific adaptations in order to best suit our clients needs and requirements.

**STEP Offshore AS**

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# Technical Data – Engineering Support Team

**INTRODUCTION:**

As a leading supplier of mud system equipment, STEP Offshore engineers have a vast experience within all necessary disciplines in mud systems design:

- ✓ Project Management
- ✓ Process Engineering
- ✓ Electrical & Instrument
- ✓ Mechanical Engineering

Teams of engineers within all disciplines mentioned above can be put together to assist rig designers and yards during all phases of the engineering from concept or FEED studies to commissioned rig to ensure that the final product meets specified requirements.

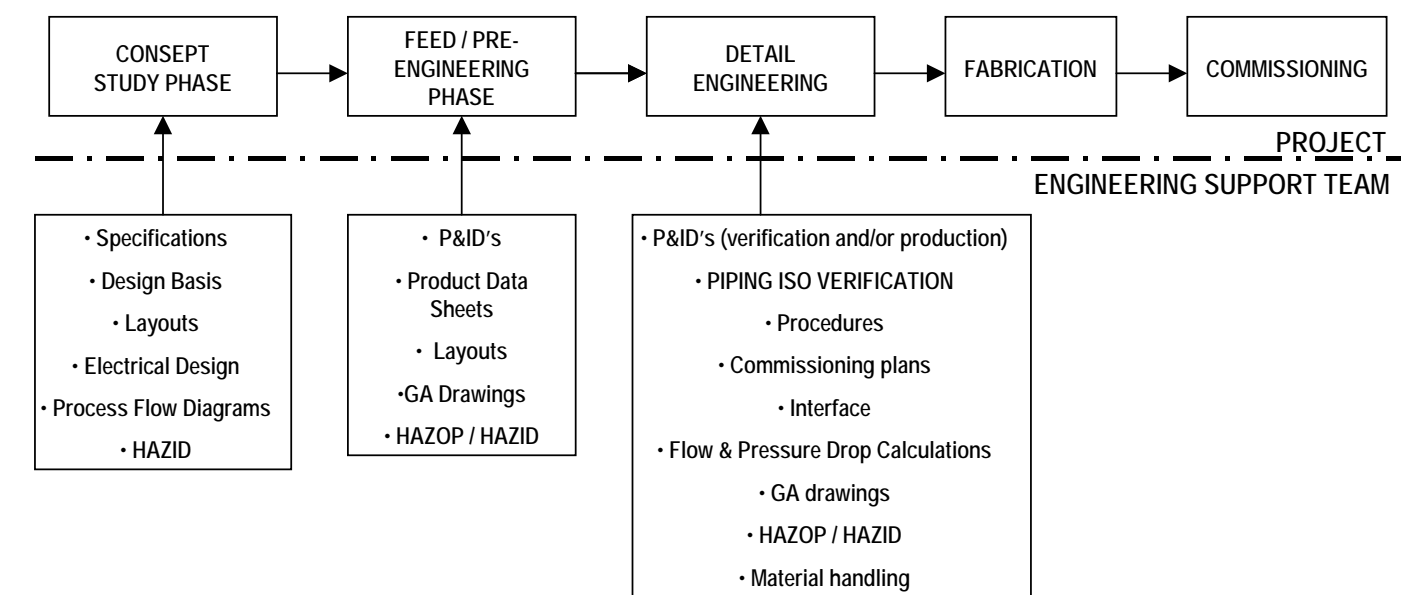
**DESIGN ASSISTANCE:**

- ✓ Bulk storage and transfer systems design assistance
- ✓ Mud mix systems design assistance
- ✓ Low and high pressure mud systems design assistance
- ✓ Solids control systems design assistance
- ✓ Waste management systems design assistance

**OTHER TYPICAL ENGINEERING SUPPORT TEAM TASKS:**

The items listed below are important details that can save expensive modifications during start-up and commissioning. "Getting it right the first time" will also ensure optimum system performance from "day one".

- ✓ Equipment selection and location (valves, tank designs, PSV sizing, level switches, load cells, pumps/agitators/mixers sizing and selection, line sizing, etc.).
- ✓ Piping design and routing assistance. Revision and design assistance of P&ID's at an early stage to ensure that the bulk and mud systems design performs according to specifications.
- ✓ Review of ISO's ensuring that the pipe routing is as good as possible with respect to amount of bends, location of purge points, location of valves/Y's/delta's, etc.



**OPTIONS:**

01 – Implementation of functions described above into Mud Control System

**NOTES:**

01 - Engineering Support Teams can be a part of a larger mud equipment package or as a separate purchase order for engineering services.

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