

Front end engineering design pembangunan LPG plant pangkalan susu Sumatra Utara

Cindy Dianita, author

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Abstrak

Skripsi ini membahas tahap-tahap perancangan tingkat lanjut atau Front End Engineering Design pada pembangunan LPG Plant Pangkalan Susu, Sumatra Utara. Pada perancangan ini dilakukan perancangan proses yang lebih detail dibandingkan tahap studi kelayakan. Tahap perancangan pabrik ini meliputi tata letak peralatan, perancangan sistem perpipaan, dan biaya investasi yang lebih detail.

Hasil akhir perancangan ini yaitu dokumentasi yang berupa piping and instrumentation diagram, plot plan, model pabrik tiga dimensi, dan bill of material. Dengan dihasilkannya dokumentasi ini maka diharapkan pelaksanaan pembangunan LPG plant dapat berjalan sesuai rencana awal pihak owner.

.....This final project discusses about Front End Engineering Design of Pangkalan Susu LPG Plant Project in North Sumatra. In this step, the process design will be more detail than feasibility study's. This design includes the equipment arrangements, piping design, as well as investment calculation.

The output of this front end engineering design are piping and instrumentation diagram, plot plan, 3D model, and bill of material. In this design, the main purpose of this engineering documents is that the construction can be held based on the owner plan as effectively and efficiently as possible.