

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

Ammonia Storage Terminal

Country:

Varna, Bulgaria

Client:

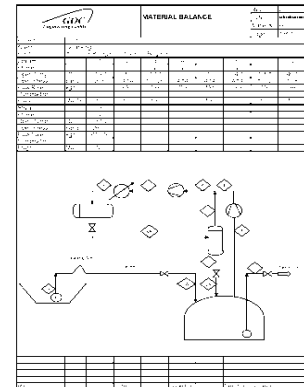
adapt for Oiltanking

Year:

2000

GOC project:

7001



PROJECT DESCRIPTION

Terminal to import Ammonia by ships
Marine unloading system @ 15,00 m³/h
Refrigerated storage tanks @ 2 x 15,500 m³
Send out system including
Discharge to production plant @ 37.5 to/h
Rail tank car loading @ 61 to/h

PROJECT PHASES

Technical/commercial study

GOC DISCIPLINES

Process
Mechanical & rotating equipment
Commercial

GOC WORK SCOPE

Technical study
costing of plant equipment

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

Ethylene Terminal

Country:

Petroquimica Triunfo, Brazil

Client:

Whessoe Oil & Gas

Year:

2000

GOC project:

7003

PROJECT DESCRIPTION

Ethylene storage system as part of a production plant

Refrigerated storage tank @ 1 x 7,100 m³

Ethylene BOG compressor

Ethylene vaporizer

Methanol system

Send out system including

Discharge to production plant 25 m³/h @ -104 °C

PROJECT PHASES

Technical/commercial study

GOC DISCIPLINES

Process

Mechanical & rotating equipment

Commercial

GOC WORK SCOPE

Technical review

Costing study

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

Salalah Gas Pipeline

Country:

Oman

Client:

ILF & Partners

Year:

2000

GOC project:

7004

PROJECT DESCRIPTION

LPG extraction plant as part of the Salalah Gas Pipeline in Oman
including
Dehydration system
Gas treatment unit
Compression unit
Cryogenic gas processing unit
Fractionation system
Product storage
Loading unit

PROJECT PHASES

Technical study

GOC DISCIPLINES

Process
Mechanical & rotating equipment
Commercial

GOC WORK SCOPE

Technical review of outline documents
Site selection review

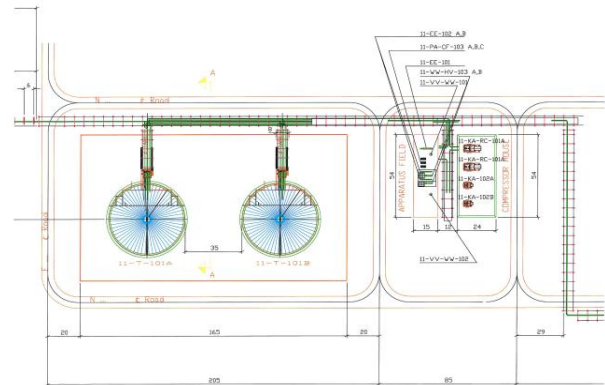
Ethylene Propylene LPG Ammonia



PROJECT

Project name:
LPG Terminal DMCC
Country:
India
Client:
Whessoe Oil & Gas

Year:
2001
GOC project:
7006



PROJECT DESCRIPTION

LPG import terminal in India to import Propane or Butane
Marine unloading system, design flow rate 1000 t/h
Refrigerated storage tanks, 2 x 25,000 m³
BOG reliquefaction system
LPG blending system
LPG Heater system
Safety system
Instrumentation & control
Piping & valves
Utility system
Flare System

PROJECT PHASES

Tender phase

GOC DISCIPLINES

Process	Tanks
Mechanical & rotating equipment	Piping & valves
Electrical & instrumentation	
Commercial	

GOC WORK SCOPE

Pre-bid assistance
Process design
Process description
Layout
Costing of equipment

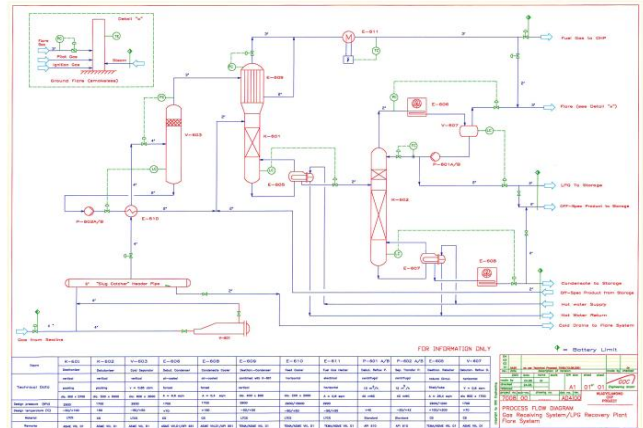
Ethylene Propylene LPG Ammonia



PROJECT

Project name:
LPG Recovery Plant
Country:
Poland
Client:
ILF

Year:
2001
GOC project:
7008



Ethylene Propylene LPG Ammonia



PROJECT

Project name:

Ammonia Storage Facility

Country:

Middle East

Client:

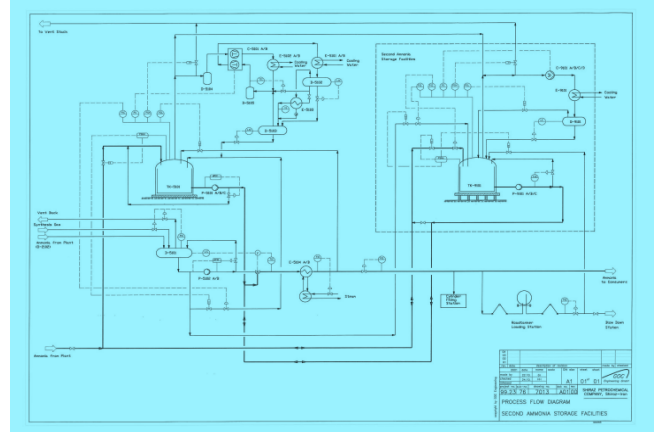
UK

Year:

2001

GOC project:

7009/7013/7014



PROJECT DESCRIPTION

New Ammonia storage facility within an existing production plant

Refrigerated storage tank, 5,000 mt

Reliquefaction system

Send out system

Safety system

Instrumentation & control

Piping & valves

Utility system

Interface with existing system

PROJECT PHASES

Tender phase

GOC DISCIPLINES

Process

Mechanical & rotating equipment

Electrical & instrumentation

Commercial

Tanks

Piping & valves

GOC WORK SCOPE

Pre-bid assistance

Process design

Process flow diagram

Sizing of equipment

Costing of equipment

Ethylene Propylene LPG Ammonia



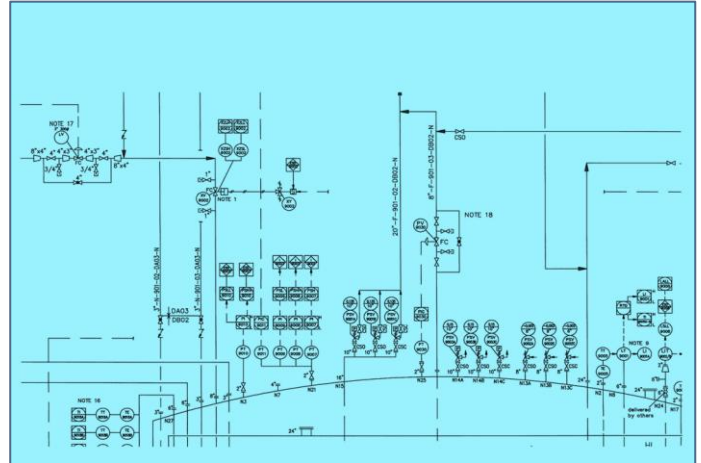
PROJECT

Project name:
PPC Off-site Facilities

Country:
Middle East

Client:
adapt for
Intecsa-Uhde

Year:
2003 - 2004
GOC project:
7031/7037/7057



PROJECT DESCRIPTION

LPG storage facility within a grassroot petrochemical complex
Refrigerated storage tank for Propane, 120,000 m³
Refrigerated storage tank for Butane, 60,000 m³
Tank instrumentation
Tank safety valves

PROJECT PHASES

Engineering

GOC DISCIPLINES

Process
Electrical & instrumentation
Safety

GOC WORK SCOPE

Sizing of tank safety valves
Design, engineering for tank instrumentation
Inquiry specification for instrumentation and valves

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

PPC Off-site Facilities

Country:

Middle East

Client:

adapt for

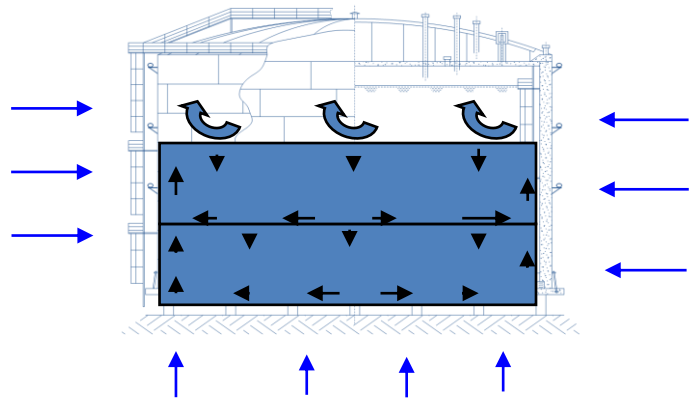
Intecsa-Uhde

Year:

2004

GOC project:

7037



PROJECT DESCRIPTION

LPG storage facility within a grassroots petrochemical complex

Refrigerated storage tank for Propane, 120,000 m³

Refrigerated storage tank for Butane, 60,000 m³

Tank instrumentation

Tank safety valves

PROJECT PHASES

Engineering

GOC DISCIPLINES

Process

Electrical & instrumentation

Safety

GOC WORK SCOPE

Roll-over study

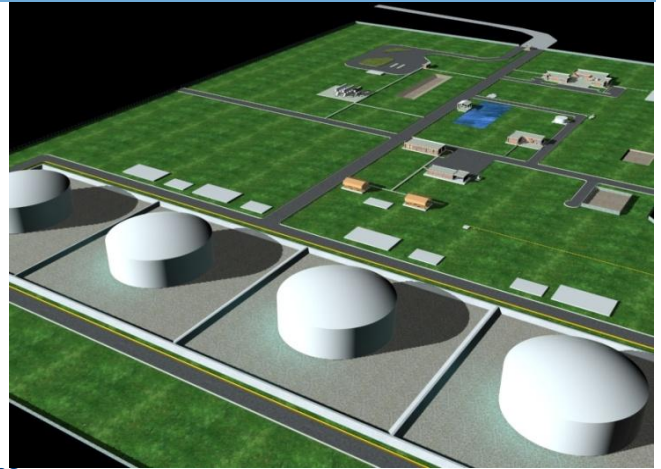
Ethylene Propylene LPG Ammonia

PROJECT

Project name:
LPG Terminal, La Libertad
Country:
Ecuador
Client:
adapt for
Dragados

Year:
2005
GOC project:
7045

Source: Dragados



PROJECT DESCRIPTION

Propane and Butane unloading and storage
Marine unloading facilities
1 x 21,000 m³ DWST single containment tank for Propane
1 x 47,000 m³ DWST single containment tank for Butane
BOG handling
Send out pumps
LPG Send out system with static mixer, LPG Heater and LPG booster pumps
Flare system
Instrumentation and control
Utility system

PROJECT PHASES

Tender

GOC DISCIPLINES

Process
Electrical & instrumentation
Safety

GOC WORK SCOPE

Functional technical specification
Costing study

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

Panipat Naphta Cracker

Country:

India

Client:

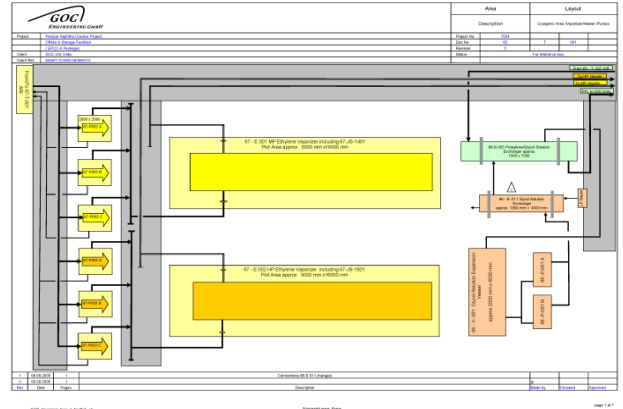
Larsen & Toubro Ltd.
for IOCL

Year:

2005

GOC project:

7054



PROJECT DESCRIPTION

Ethylene storage and transfer system including
2 x 21,600 m³ full containment tank for Ethylene
Ethylene BOG compression system
Ethylene emergency vaporization system
Ethylene pumping system
Propylene storage and transfer system including
2 x 15,600 m³ full containment tank for Propylene
Propylene BOG compression system
Propylene heating system

PROJECT PHASES

Pre-bid assistance

GOC DISCIPLINES

Process
Mechanical & rotating equipment
Electrical & instrumentation
Safety

Tanks

GOC WORK SCOPE

Process engineering
Tank engineering
Costing study

Ethylene Propylene LPG Ammonia



PROJECT

Project name:

PPC Off-site Facilities

Country:

Middle East

Client:

adapt for

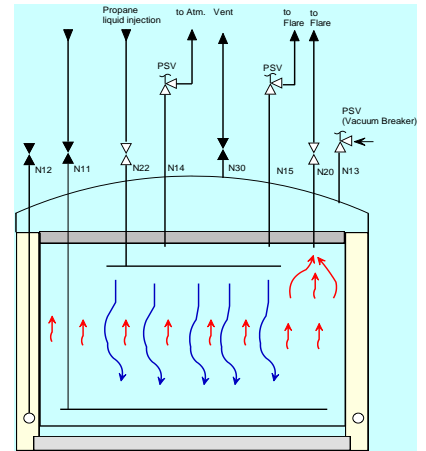
Intecsa-Uhde

Year:

2005

GOC project:

7057



PROJECT DESCRIPTION

LPG storage facility within a grassroots petrochemical complex

Refrigerated storage tank for Propane, 120,000 m³

Refrigerated storage tank for Butane, 60,000 m³

Tank instrumentation

Tank safety valves

PROJECT PHASES

Engineering

GOC DISCIPLINES

Process

Electrical & instrumentation

Safety

GOC WORK SCOPE

Purge and cool-down procedure for refrigerated tanks

Ethylene Propylene LPG Ammonia

PROJECT

Project name:
Ethylene storage tank

Country:

Germany

Client:

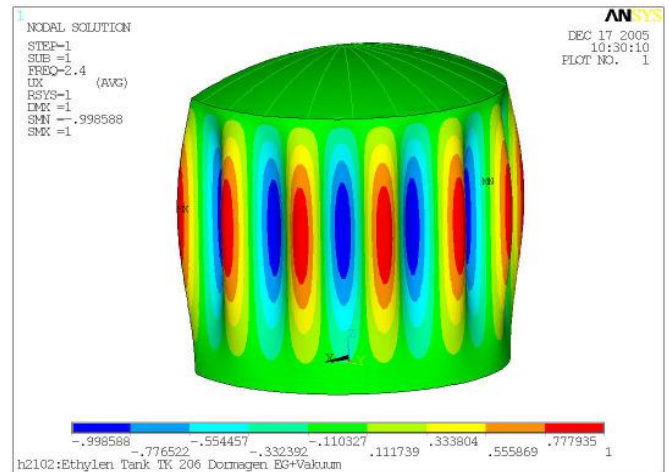
Ineos

Year:

2005/2006

GOC project:

7056



PROJECT DESCRIPTION

Existing Ethylene storage tank within a Ethylene production plant
1 x 4,000 m³ single containment tank for Ethylene
Ethylene send out system with
Ethylene pumps installed in a pump cellar below ground level.
Ethylene vaporizer system

PROJECT PHASES

Technical and commercial study

GOC DISCIPLINES

Process
Mechanical & rotating equipment
Electrical & instrumentation
Safety
Tanks

GOC WORK SCOPE

Detailed study to upgrade the safety level of the Ethylene tank.
Process engineering
Tank engineering
Process engineering
Tank engineering
Costing study