

Industrial Process Solutions



Company

IPS Engineering is an engineering company, providing specialized advisory services to broad range of industries such as chemical, petroleum, pulping, power generation, waste treatment, alternative fuels, and more.

The company is founded in 2007 as a local consulting company.

The company core competence is related to its experts and consultant. high-qualified They are that engineers their professional abilities derive from profound theoretical knowledge and long years experience.



IPS is a node in a grid of wide range of hold together by common companies, convictions and experience. That cluster we call IPS Partnership. By our Partnership Service Platform, we provide procurement, manufacturing, commissioning, consulting and specialized training to our clients, helping sustainable development the of their business.

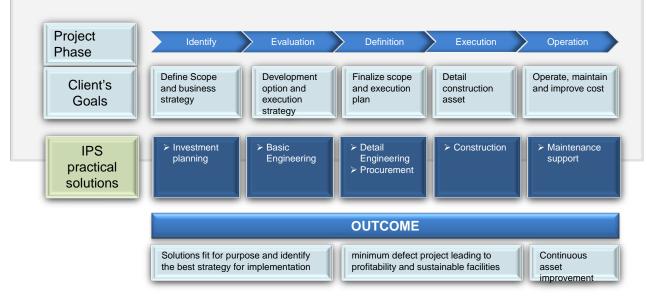
Mission & Philosophy

To retain high value quality, increase efficiency, reduce process variability and costs and finally be competitive; We conduct technical and business consulting services through a succession of stages necessary for the success of any initiative.



We assist customers in the project development and realization process – from the preliminary research, feasibility study, conceptual design, technology selection, assignment of tasks specification to the detailed engineering design, procurement, construction, commissioning & start-up, maintenance & optimization and personnel training.

This unique focus allow us to develop services to trigger process improvement, providing a range of "Services to Compete". In this manner, with market conditions ever changing, we offering the engineering services at an extremely affordable price.



Our concept is to provide innovative solutions developed for the needs of each individual customer and practical solutions of complex industrial problems at high professional level.

Areas of expertise



OIL & GAS

- ✓ Refining plants
- ✓ Surface facility







ENERGY

- ✓ Cogeneration system
- ✓ Biodiesel
- ✓ Biomass to biofuels





VEGETABLE OIL & FAT

- ✓ Edible oil refining
- ✓ Oleochemicals
- ✓ Glycerine recovery



ENOLOGY

- ✓ Must concentration
- ✓ Reverse osmosis
- ✓ Desulfurization





NON WOOD PULP & PAPER

- ✓ Alkali-Oxygen delignification
- ✓ Dissolving pulp
- √Kappa reduction
- ✓ Deinking & Bleaching



Company Workflow

Commercial

First

- Prequalification
- Tender documents
- Bid-no bid

Next

- Offer
- Review offer
- Adoption offer
- Commercial negotiations
- Contract



Project management

Project start

- Review of the contract
- Identifying critical issues and risks
- Planning and programming
- Supply and transport policy
- Feasibility and constructability

Management plan

- Architecture of plan
- Project Control
- Management risks and modifications
- Feedback from the project

Quality

- Quality plan
- Audits
- Lessons learned





Company Workflow

Technical and Business Consultancy

Investment planning

- Preliminary research
- Technical and financial assessments
- Pre feasibility and feasibility Studies
- Conceptual process design studies
- Preliminary cost estimates
- Costs vs. benefits analyses
- Alternatives evaluations studies
- Capacity evaluations/revamp studies
- Evaluation of 3rd party process designs
- Best practices/techniques consulting



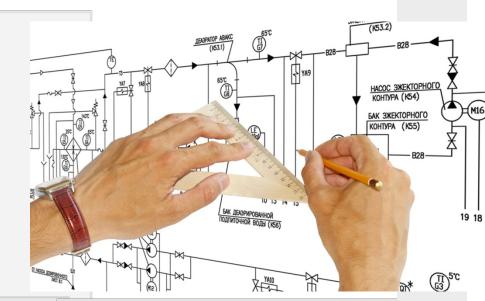
PS End

Company Workflow

Design

Process

- Design Criteria
- PFD and P&ID
- Item list
- Process date sheet
- Plot plan & model
- Preliminary hazard analysis
- Duty spec. package and complex items



Detail design

- Isometric drawings, piping and mounting brackets
- Construction designs
- Spec. and document of installation
- Final materials list
- Electrical, control and Instrumentation layout.
- Utility systems expansion and upgrades
- Effluent plant layout

Front End

- P&ID mechanization
- Plant planting
- Electro-instrument systems
- POS for complex item
- Items specifications
- Process hazard analysis
 (PHAs) and risk evaluation
- Safety integrity level (SIL) study
- Cause & effect diagrams
- Fire protection study

Detail during the construction

- Available materials and documentation
- Permission to change as built document

Details of the items and the bulk

- POS
- Development model
- Stress Analysis
- Materials list
- Follow up supplying
- Mechanical book
- Spare Parts

Outsourcing

Procurement

Qualification of suppliers

- Purchase material and services
- Vendor list
- Issue RDO
- Commercial Ratings
- Issue orders

Quality control

- IDS
- Inspection report
- Non-compliance
- Certificates

Expediting and shipments

- ASO
- MSR
- Shipping file

Construction

Mechanical completion

- Mech. compl. book
- Mech. compl. cert.
- Dossier of QC

Commissioning, start up and test run

- Ready ON certification
- Test run report
- Provisional acceptance





GLYCEROL PURIFICATION PILOT PLANT

IPS JOINT VENTURE
BASIC & DETAILED ENGINEERING, TECHNICAL
SPECIFICATION FOR EQUIPMENT AND CONSTRUCTION –
TRIAL TEST ASSISTANCE
2014
ITALY

DISSOLVING PULP PRODUCTION PLANT

SUN PAPER INDUSTRY JOINT BASIC ENGINEERING FOR 100,000 TPA DS PULP FROM COTTON LINTERS 2012-2013 CHINA

ZUBAIR OIL FIELD DEVELOPMENT PROJECT

ENI-IRAQ EXISTING DEGASSING STATIONS STUDY 2011 ZUBAIR IRAQ

ZUBAIR OIL FIELD DEVELOPMENT PROJECT

ENI-IRAQ PROCESS FEASIBILITY VERIFICATION FOR ZUBAIR "P90" PRODUCTION TREND YEAR 2010-2011 2010 ZUBAIR IRAQ

LPG MEROX TREATMENT PACKAGE- UOP PROCESS

PERSIAN GULF STAR OIL COMPANY BUDGETARY PROPOSAL FOR LPG MEROX TREATMENT PACKAGE 2010 BANDAR ABBAS REFINERY IRAN

GAS COMPRESSION PACKAGES

S.N.G.N. ROMGAZ S.A.
PROCESS VESSEL AND SAFETY VALVES SIZING FOR
BOGATA, LUDUS, ERNEI, SG. DE PADURE, BORDOSIU UNIT
2010
ROMANIA

ENI VENICE REFINERY

PLOIMERI EUROPA S.P.A.
ENI REFINING & MARKETING
HEAT EXCHANGER SIZING FOR ETHYLENE-PROPYLENE
REFRIGERATION UNIT
2010
ITALY

KARACHAGANAK- URALSK GAS PIPELINE

KARACHAGANAK PRESSURE REDUCING SYSTEM RATING AND SPECIFICATION 2009 KAZAKISTAN

GAS COMPRESSION UNIT

SONATRACH DP/HMD
PROCESS DETAILED ENGINEERING, TECHNICAL
SPECIFICATION FOR EQUIPMENT AND CONSTRUCTION PROCUREMENT ASSISTANCE-ENVIRONMENTAL
PERFORMANCE EVALUATION-LIFE CYCLE ASSESSMENT
2009-2010
HASSI-MESSAOUD (ALGERY)

ENI VENICE REFINERY

ENI REFINING & MARKETING RBI ANALYSIS -OFFSHORE PIPELINE 2008 ITALY

ENI VENICE REFINERY

ENI REFINING & MARKETING FIRE FIGHTING NETWORK CHECK UP HYDRAULIC MODEL AND CALCULATION 2008 ITALY

MA' ADEN PHOSPHATE PROJECT

LITWIN IT PROCESS DESIGN BASIS AND EQUIPMENT DESIGN 2008 S. ARABIA

ENI SANNAZZARO REFINERY

ENI REFINING & MARKETING NATIONAL REGULATION FOR PRESSURE EQUIPMENT DIRECTIVE ACCOMPLISHMENT (D.M. 329/04) 2008 ITALY

POTASSIUM NITRATE CRYSTALLIZATION PLANT KNO3

TECHNICAL SPECIFICATION FOR EQUIPMENT AND CONSTRUCTION - DETAILED ENGINEERING AND PROCUREMENT ASSISTANCE 2008
COYA SUR (CHILE)



LUBRICATION OIL RECEIVING, HANDLING AND DISTRIBUTION PLANT

SARL RABIE INDUSTRIE (ALGERI)

TECHNICAL PROPOSAL - PRELIMINARY CONCEPTUAL AND BASIC DESIGN 2007

ALGERIA

ONSHORE RECEVING FACILITIES

SEI (SAIPEM ENERGY INTERNATIONAL) FOR ENI E&P BASIC AND DETAILED ENGINEERING FOR AWA-PALOUKOU PLATFORM AND ONSHORE RECEVING FACILITIES AT DJENO TERMINAL (AWA PALOUKOU AND APPOINT GAS).

2005-2007

CONGO

SULFUR PLANT

ENI - R&M

BASIC AND DETAILED ENGINEERING OF DISTRIBUTION-ENGINEERING OF SAFETY SYSTEM

2007

ITALY

PENICILLIN G AND CLABULANIC ACID PLANT

TEMAD- (IRAN)

BUDGETARY PROPOSAL FOR "BASIC ENGINEERING DESIGN PACKAGE" 2006

IRAN

CELLULOSE PRODUCTION PLANT

CELLULOSA 2000 S.P.A
BASIC AND DETAILED ENGINEERING
EQUIPMENT AND LINE SIZING; TECHNICAL SPECIFICATION AND
COMPARISON, CONSTRUCTION AND TEST ASSISTANCE, COMMISSIONING
AND START-UP
2000-2003
ITALY

MEROX BENZINE MIN-ALK TURN-KEY PLANT - UOP PROCESS

AGIPRAFFINAZIONE S.P.A. –SANNAZZARO D. B. REFINERY P&ID, BASIC AND DETAILED ENGINEERING, TECHNICAL SPECIFICATION FOR EQUIPMENT, LINE SIZING AND TECHNICAL COMPARISON - CONSTRUCTION AND TEST ASSISTANCE, COMMISSIONING AND START-UP - OPERATING AND MECHANICAL MANUAL - NATIONAL REGULATION FOR PRESSURE EQUIPMENT DIRECTIVE ACCOMPLISHMENT (ISPESL) 1994-1997



ONSHORE RECEVING FACILITIES

ENI – E&P – BASIC AND CONCEPTUAL DESIGN FOR KALAMKAS PROJECT 2004-2005 NORTH EAST CASPIAN SEA

NEW TOLUENE RECOVERY PLANT FOR PRINTING FACTORY

MAUL BELSER GMBH (WITH CO-VER IMPIANTISTICA)
TECHNICAL MANAGER ,CONSTRUCTION AND TEST ASSISTANCE, COMMISSIONING
AND START-UP,OPERATING AND MECHANICAL MANUAL
2003
NORIMBERGA (D)

WAFA COASTAL OFFSHORE PLANT

TECHNIP AT TECNIMONT (FOR AGIPGAS BV) SUPERVISION OF PROCESS DETAILED ENGINEERING 2003 (LIBYA)

PP, HDPE E LDPE PLANT

TECNIMONT CALCULATION OF PSV'S AND BLOW DOWN NETWORK 2002 ITALY

WAX VACUUM, HD2, UNI 2

AGIPPETROLI –LIVORNO REFINERY STUDIES FOR PLANT REVAMPING 2002 ITALY

BIOMASS POWER PLANT (WOOD CHIPS)

CELLULOSA CALABRA S.P.A.
BASIC AND DETAILED ENGINEERING
EQUIPMENT AND LINE SIZING; TECHNICAL SPECIFICATION AND COMPARISON,
CONSTRUCTION AND TEST ASSISTANCE, COMMISSIONING AND START-UP
1998-2000
ITALY

IPS ENGINEERING SRL

Registered Office: Via Piranesi, 26

20137 Milano (MI)

Fax: (+39) 02362 156 74 www.ips-engineering.it info@ips-engineering.it

References



IPS is ISO certified in accordance with standard UNI EN 9001-2008.



IPS ENGINEERING S.R.L. Via Piranesi, 26 20137 Milano Italy

P.IVA/C.F. 06900670966

fax. +39 02 362 156 74 e-mail. info@ips-engineering.it

www.ips-engineering.it

Copyright® IPS Engineering Srl 2014. All right reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying recording or otherwise, without the prior permission of the copyright owner.