



your reliable partner



**INDUSTRIAL
PIONEERS
FARAYAND**



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IPF
INDUSTRIAL
PIONEERS
FARAYAND

Your convenience source in mineral processing

Installation & job-Site fabrication

I.P.Farayand with two decades of experience in field of chemical process plant & units. Technical key persons with help of latest & updated technologies have created over 60 completed projects until 2009.

I.P.Farayand select multi discipline and project base organization for team-work engineering, rapid procurement and exact construction toward just in time plant delivery.

We accept whole responsibility from feasibility study to after sale services to increase client satisfaction.

I.P.Farayand as the mother company of Farayand holding has mixed the capability of unit operation, expert design and skilled fabrication to achieve one word "SUCSESS".

Job site fabrication with establishing field workshops.

Skilled site mans with robust manufacturing machinery are necessary for :

- huge vessels & storage tanks fabrication
- Errection of equipment
- installation and piping
- hook up of instrument and control cabinet
- MCC panel installation & cabling.

Based on strong job site organization I.P.F carry out start up by unit operation and process specialist.



Civil & Construction

Your responsible partner

The company civil discipline design industrial construction with close cooperation to another disciplines for meeting their requirements in buildings.

Steel & concrete structure with minimum deviation from drawings means our designs staff are executive people and working teams believe engineers.

IPF equipped with modern civil machinery, multi-groups skilled worker with expert site managers for doing projects fast – perfect– feasible.



Mineral	Process
Copper Ore	Crushing / Milling
Gold Ore	Leaching / Reaction
Uranium Oxide	Sedimentation / Thickening
Magnesium Sulfate	Adsorption / Desorption
Rock Salt	Evaporation / Crystallization
Barium Sulfate	Drying

Key knowledge for separation solid – liquid



Skilled executive piping teams in IPF create a matter of art.

Based on strong engineering they pre-fabricate all pipe spools and fitup them with minimum tolerances.

Every spool is tested before coming in services by VT & NDT methods PT, VT or RT and finally hydrotest.



Piping



Piping is the strength of media transfer.

IPF. Equipped with latest softwares for modeling & testing of piping.
3-D plant piping prevent most of extra work during execution operation in job-site.

Piping material from reliable partner with qualification certificate has guaranteed process against corrosion, leakage and trouble.



Over 20 Sedimentation units with more than 550 m³/hr capacity.

Different separation units experience is a part of I.P.F specialty.

Many kind of filters, centrifuges in batch and continuous operation have been used for crystalline & amorph materials.

The company select reliable supplier to trouble-free operation by use of automatic washing, shaking, discharge & feed device.

Separation is the buttle neck of mineral processing, we believe correct selection means smooth operation.

lamella package technology for sedimentation in small area and more feasible investment in compare with thickeners, is one of key technology in hand of your partner.



Autoclaved Aerated Concrete (AAC) Plants

Manufacturing Capabilities



Autoclaved aerated concrete (AAC)

New technology for the light / high performance block manufacturing in civil construction.

Production know-how in addition of heavy-duty machines with more efficient and continuous productivity.

The production line consist of:

- Milling technology
- Bulk material handling
- slurry pumping
- autoclaves / curing
- ...



IPF equipped with standard automated machinery beside tempering and annealing furnaces to achieve high quality process equipment.

The company has many references in supper alloys such as MONEL, HASTALLOY, TITANIUM & DUPLEX S.S.

Quality assurance & Quality control

- Management
- Programming
- Standard basis operation
- Accuracy
- Supply from reliable vendors.
- In house SOP.



Mixing & Agitation

Mixing & Agitation is an important element of modern process engineering.

IPF has in-house software for mixer / Agitator design and production.

We have done :

Liquid – Solid

Liquid – Liquid

Solid – Solid

Gas – Liquid

Mixing

with more than 35 types of impeller.

Good mixing means

- reasonable reaction progress
- homogenous condition
- suitable process yield
- trouble – free operation



Ion Exchange Process

Purification, separation and decontamination of aqueous and non-aqueous ion's solution are always one of the main process step in every IPF project. It made us expert in ION EXCHANGE PROCESS.

Design and manufacturing over 30 ION EXCHANGE PACKAGES for Preparation of high purity water for chemical and power generation plants, Separation of heavy metal in metallurgical process and Purification of solutions in food and pharmaceutical production plants have brought IPF a full Knowledge in RESIN selection and DESIGNING package and MANUFACTURING related equipments.

Over the past decade IPF has supplied more than 20 types of resin including Strong /Weak, Acid/ Alkali, Anionic/ Cationic from very well known suppliers such as R&H, Bayer and DAOW.



GMP Pharmaceutical Plants

Instrumentation

*Efficient operation with
the best instrument*



IPF Has constructed full GMP pharma plants with the international standard in numerous projects.

H.VAC systems plus/minus pressure rooms and corridors, beside mirror polished equipments and sanitary joints and connections are the unique characteristic of pharma plants.

Farayand Shimi Hackim as an affiliated Co. is one of the best technical and qualified pharma plants in IRAN for cardiovascular products.



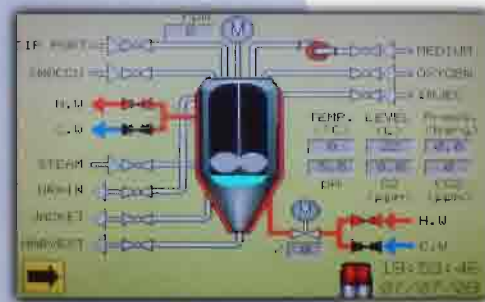
Instrumentation is the beating heart of a plant. Due to this reason our policy in design of a plant is the selection of the best supplier to have the best services for our partner.

Using instruments consistent with HART PROTOCOL (Highway addressable remote transducer) helps us to access all required data and calibration on time.





This package has exported to Germany in 2007 (Dr. Bluhm GmbH)



Fermenters & Bioreactors are the most complicated equipments in chemical industries.

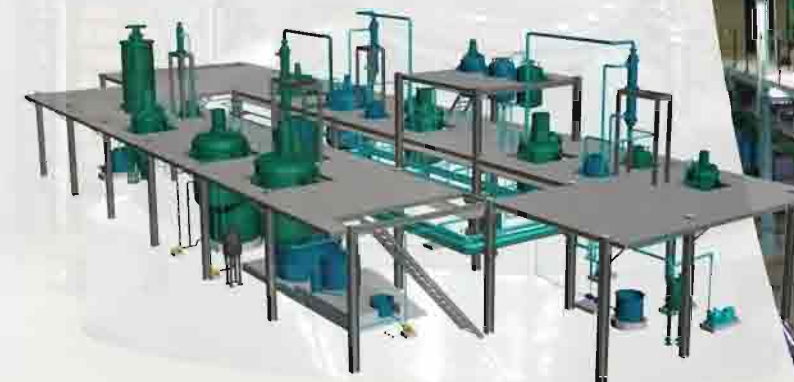
The reactants are living organisms and need to be surveillance carefully during the process period.

Technologies for design are very high grade and manufacturing tolerances are extremely tough.

Now the company is known as a supplier of midscale bioreactors in worldwide "Fara Fermenter"

IPF Process division beside of complete plant design & construction is specialist in:

- Catalytic reduction (Hydrogenation)
- Oxidation
- Chlorination
- Nitration
- Demethylation
- ...



Electrical & Automation Capabilities

Smooth & user-friendly automation with the best control system

This company achieved a good experiences in electrical field in many years due to its cooperating and coordinating in industrial projects.

By applying the updated technology in electrical industry is being capable in designing, fabricating, installation, cabling, testing & commissioning electrical panels.

In order to keep the promotion of products quality accomplish the expert engineers and updated softwares such as ETAP & E-PLAN 5.5.

There is a standalone department for process control & Automation in the company. Expert staff attended to some outstanding professors solve all problems in the field of process control of the projects.

New technologies and foundations such as DCS, FIELDBUS, PROFIBUS, PROFANED, etc. are used along with famous brands such as **SIEMENS PCS7**, **OMRON**, **SCHNEIDER** and so on.

Our main target in this discipline is to achieve the best and uniform quality of the products with the most smooth and trouble-free operations to Manage all process control system.

