1. General Information
2. Scope of Activity
3. Experiences
4. International Partners & Suppliers
5. Organization Data
6. Our Proficiencies
7. Personnel’s C.V
8. Cooperation & Agreements
9. Certificates
1. General information

1.1. Name:
DARYA PETRO SAZEH Co. (PJS)

1.2. Board of Directors
Kamel Piri – Managing Director
M.Farrokh Atai – Chairman of the Board
Ziba Raisghassem – Member of the Board

1.3. Ownership
Private

1.4. Date of Registration
August, 25, 2007 (1386.06.03)

1.5. Registration Data
Reg. No. 302891
Country of Registration: Iran

1.6. Head Office Address:
No. 6, Unit 3, 21st Street, Argentine Sq., Tehran-Iran
Postal Code: 1513914111
Tel.: (0098-21)88559206-88556351
Fax: (0098-21)88557158
E-mail: info@daryapetrosazeh.com

1.7. Workshop Address:
No. 290, Boostane Sanat Ave. 17 Shahrivar St. First of Vavan Road, Old Qom road – Tehran-Iran
Tel.: (++98-21) 56543017
Fax: (++98-21) 56543018

1.8. International Commercial Cooperating Firm

- PSNI.
  Unit307-3thfloor-Sheikh Zayed Highway-
  Behind of Emirate Mall- Albrsha1
  Albrsha Business Center Building
  Phone: 0097-143950315
  Fax: 0097-143950316

1.9. Cooperating Contractors & Producers

- Iranian Contractors
  - Zolal Iran Co.
  - Andisheh Zolal Co.
  - Technozist Co.
  - Padiav Sana’at Co.
  - Itook Iran Co.
  - Sadid Jahan Sanat Co.
  - Aflak Novin Kar Co.
  - Hamoon Mobaddel Co.
  - Vala Energy Co.
  - Tavan Azmayan Co.
  - Pishrovan sanat khavar Co.
  - Mahab Gostar Engineering Co.
  - Loole Sabz Hamgam Co.
  - Pipe Etilen Co.
  - Palayesh Abe Khavarmianeh Co.
  - Petro Faravaresh Co.
Foreign Companies

- Veolia water System (France)
- BAMAG GmbH & Co. KG (Germany)
- PIPDEV Co. (England)
- AXIOM (Austria)
- PSNI (U.A.E)
- Gulf Pearl Petroleum (U.A.E)
- UK’s First Choice Limited (UKFC)
- Noxon (Sweden)
2. Scope of Activity

2.1. Oil, Gas & Petrochemical Industries
- EPC in Water Treatment Plants
- EPC in Waste Water Treatment Plants
- EPC in Incinerators
- EPC in Chemical Packages
- EPC in Pumping Stations
- EPC in Piping
- EPC in Pipelines
- EPC in Storage Tanks
- EPC in Steel Structures
- Supply of Equipment
- Supply of Piping Materials
- Supply of Chemicals, Resins, Membranes
- Supply of Instruments
- Supply of Electrical Items

2.2. Power Generation Plants
- EPC in Water Treatment Plants
- EPC in Waste Water Treatment Plants
- EPC in Chemical Packages
- EPC in Pumping Stations
- EPC in Piping
- EPC in Pipelines
- EPC in Storage Tanks
- EPC in Steel Structures
- Supply of Equipment
- Supply of Piping Materials
- Supply of Chemicals, Resins, Membranes
- Supply of Instruments
- Supply of Electrical Items

2.3. Urban Industries
- Environmental Engineering
- EPC in Water Treatment Plants
- EPC in Sewage Treatment Plants
- EPC in Chemical Packages
- EPC in Pumping Stations
- EPC in Piping
- EPC in Pipelines
- EPC in Storage Tanks
- EPC in Steel Structures
- Supply of Equipment
- Supply of Piping Materials
- Supply of Chemicals, Resins, Membranes
- Supply of Instruments
- Supply of Electrical Items
- Operation and Maintenance

2.4. Industrial Plants
- Environmental Engineering
- EPC in Water Treatment Plants
- EPC in Sewage Treatment Plants
- EPC in Chemical Packages
- EPC in Piping
- EPC in Storage Tanks
- EPC in Steel Structures
- Supply of Equipment
- Supply of Piping Materials
- Supply of Chemicals, Resins, Membranes
- Supply of Instruments
- Supply of Electrical Items

2.5. Special Civil Works
- Heavy Earthworks
- Site development
- Roads
- Basins
- Channels & Ditches
- Dikes & Lagoons
- Heavy RC concrete foundations & structures
- Structural steel works
- Piling
- Housing
- Industrial Buildings
- Steel framed shops and stores
3. Professional Experience

3.1. Member’s Experience in Oil, Gas & Petrochemical Projects

Darquain Oil Field Water Treatment Plant

- Water Treatment Plant, Capacity 120 m³/hr

Client: ENI Co.
Type of Contract: EPC
Location: Darquain
Period of Execution: 11 months
Fajr Petrochemical Company -- Water Treatment Plant

Containing:
- Demin water Capacity: 1020 m3/hr
- CPP Capacity: 555 m3/hr
- Service water Capacity: 400 m3/hr
- Potable water Capacity: 250 m3/hr
- RO water Capacity: 4680 m3/hr
- Cooling water Capacity: 3200 m3/hr

Client: Fajr petrochemical co.
Type of Contract: EPC
Location: Bandar Imam
Period of Execution: 24 months
Fajr Petrochemical Company -- Water Treatment Plant

Containing:
- Demin water  Capacity: 1020 m3/hr
- RO water  Capacity: 4680 m3/hr

Client: Fajr petrochemical co.
Type of Contract: EPC
Location: Bandar Imam
Period of Execution: 24 months
Fajr Petrochemical Company ---- Effluent Treatment Plant

Containing:
- Low salinity effluent      Capacity: 421 m3/hr
- High salinity effluent     Capacity: 70 m3/hr
- Sanitary effluent          Capacity: 69 m3/hr

Client: Fajr petrochemical company
Type of Contract: EPC
Location: Bandar Imam
Period of Execution: 10 months
Mobin Petrochemical Co. ---- Water Treatment Plant

**Containing:**
- Demin & CPP unit
- Potable unit
- Chemical injection unit
- Storage tank & pump station

**Client:** Mobin petrochemical Co.
**Type of Contract:** Engineering
**Location:** Bandar Assaluyeh
**Period of Execution:** 12 months

---

Mobin Petrochemical Co. ---- Waste Water Treatment Plant

**Containing:**
- COC Train
- POC Train
- Chemical Dosing unit
- Oily Sludge Treatment
- Bio Sludge Treatment

**Client:** Sazmand Co.
**Type of Contract:** Engineering
**Location:** Bandar Assaluyeh
**Period of Execution:** 14 months
Kermansheh Petrochemical Co. ---- Water treatment

Containing:
- Pretreatment & Filtration unit  Capacity: 844 3/hr
- Demin & CPP unit          Capacity: 410 m3/hr
- Neutralization unit          Capacity: 45 m3/hr
- Potable water unit          Capacity: 12 m3/hr
- Chemical Dosing unit

Client: Namvaran
Type of Contract: Engineering & Procurement
Location: Kermanshah
Period of Execution: 14 months
**Razi Third Ammonia plant packages**

- Cooling water side stream filters
- Sea water cooling tower side stream filters

**Client:** Razi petrochemical Co.  
**Type of Contract:** Engineering  
**Location:** Bandar Imam  
**Period of Execution:** 14 months

**NGL – 1200 plant**

- Pretreatment & Backwash facilities of demin package  
- Demin Water Package Capacity: 14 m3/hr  
- Waste water treatment plant (API)  
- Chlorination package

**Client:** OIEC  
**Type of Contract:** EPC  
**Location:** Gachsaran  
**Period of Execution:** 10 months

**NGL – 1300 plant**

- Pretreatment & Backwash facilities of demin package  
- Demin Water Package Capacity: 14 m3/hr  
- Waste water treatment plant (API)  
- Chlorination package

**Client:** OIEC  
**Type of Contract:** EPC  
**Location:** Siamakan  
**Period of Execution:** 10 months
3.2. Member’s Experience in other Industries

**Tabriz Power Condensate Polishing Plant**

Containing:
- Regeneration
- CPP & Neutralization units

**Client:** Azarbayegan Regional electric company  
**Type of Contract:** EPC  
**Location:** Tabriz  
**Period of Execution:** 18 months

**Ushan, Fasham & Meygoun Sewage Treatment Plants**

Containing:
- Sewage Treatment Plants Each 4500 m3/day

**Client:** Tehran water & wastewater treatment  
**Type of Contract:** EPC  
**Location:** Ushan-Fasham & Maygoun  
**Period of Execution:** 18 months
**Molibden Removal Package**

**Containing:**

- Capacity: 1420 LIT/Day

**Client:** Talaye Darane Sanate Farayand  
**Type of Contract:** EPC  
**Location:** Bandar Abbas  
**Period of Execution:** 18 months
Larestan Water Treatment Plant

- Water Treatment Plant, Capacity: 1 m³/s
- Chemical injection & chlorination systems

Client: Fars Regional water company
Type of Contract: EPC
Location: Larestan
Period of Execution: 18 months

Shiraz Sewage Treatment Plant

- Sewage Treatment Plant, Capacity: 48,000 m³/day

Client: Shiraz water & wastewater treatment plant co.
Type of Contract: EPC
Location: Shiraz
Period of Execution: 20 months

Marvdasht Sewage Treatment Plant

- Sewage Treatment Plant, Capacity: 15,000 m³/day

Client: Fars water & wastewater treatment plant co.
Type of Contract: EPC
Location: Marvdasht
Period of Execution: 20 months
Salafchegan Water Treatment Package

Containing:

- RO Unit, Capacity: 50 m³/hr

Client: Salafchegan Pipe Company
Type of Contract: EPC
Location: Salafchegan
Period of Execution: 3 months

Mahshahr Water Treatment Package

Containing:

- RO Unit, Capacity: 50 m³/hr

Client: Mahshahr Pipe Company
Type of Contract: EPC
Location: Mahshahr
Period of Execution: 3 months
Khorasan Waste Water Treatment Plant

Containing:

- Waste Water Treatment plant

Client: Iran khodro sazeh
Type of Contract: Engineering
Location: Khorasan
Period of Execution: 9 months

Latakia Sewage Treatment Plant - Syria

Containing:

- Sewage Treatment Plant , Capacity 9200 m³/hr

Client: Tehran Mirab
Type of Contract: Engineering
Location: Latakia (Syria)
Period of Execution: 5 months

Tartus Sewage Treatment Plant - Syria

Containing:

- Sewage Treatment Plant , Capacity 3800 m³/hr

Client: Tehran Mirab
Type of Contract: Engineering
Location: Tartus (Syria)
Period of Execution: 5 months
SOUTH PARS - PHASE 13 SEWAGE TREATMENT PLANT

Containing:

- Sewage Treatment Packages, Capacity 180 m³/day

Client: Petro Paidare Iranian
Type of contract: Engineering & Procurement & Installation
Location: Asalouyeh
Period of execution: 45 days
3.3. Under Execution Projects

Basrah Refinery Waste Water Treatment Plant

Containing:

- Oily Water Treatment plant, capacity 1200 m³/hr
- Sanitary Treatment plant, Capacity 50 m³/hr
- Spent caustic Stream treatment, capacity 50 m³/hr

Client: South Refineries Company (SRC)- Iraq
Type of Contract: EP
Location: Iraq-Basrah
Period of Execution: 17 months
SOUTH PARS - PHASE 12 SEWAGE TREATMENT PLANT

Containing:

- Sewage Treatment Packages, Capacity 180 & 60 m³/day

Client: Daelem, Keysoon & sazeh JV
Type of contract: Engineering, Procurement & Construction
Location: Tombak
Period of execution: 5 months
SISANGAN Sewage Treatment Plant

Containing:

- Sewage Treatment Plant and relevant network

Client: University of Naval Science & Technologies
Type of contract: Procurement & Construction
Location: Noushahr - Sisangan
Period of execution: 12 months
4. International Partners & Suppliers

4.1. NOXON

Noxon Engineering Pte Ltd

Decanter Centrifuge

Red Valve
Control Pinch Valve
Duck Bill Check Valve
Expansion Joint
Knife Gate Valve
Effluent Diffuser
Air Diffuser
Mixing System

Polymer Machines
4.2. SENA

Workshop Equipment

- Machine Tools (Lathe, Boring Machines, Drilling Machines, Milling Machines, Sawing Machines, Slotting Machines, Grinders and Other Workshop-Associated Machine Tools)
- Laboratory Furniture, Equipment and Chemicals
- Warehouse Facilities (Racks, Shelves, Pallets, Forklifts, Cranes, etc.)
- Electrical Test Equipment
- Measuring Tools
- Hand Tools
- Garage Equipment and Tools
- Construction Equipment
- Cranes and Vehicles (Workshop Overhead Cranes, Mobile Cranes, Special Purpose Vehicles)
- General Materials for Plant Operation and Maintenance

Plant Facilities & Equipment

- F.L.Smidth Airtech, Denmark (ESP (or EP), Gas Suspension Absorber; GSA)
- FFE Minerals, USA (FGD Limestone Sorbent Preparation Systems incl. Ball Mills)
- Mixing Solutions Limited, UK (Agitator & Mixer)
- Plattco Corporation, USA (Double Flap Gate Valves)
- Moller-Fuller Bulk Handling, GmbH, Germany (Bulk Handling System & Silo)

Piping Products

- Pipes & Tubes
- Coated Pipes
- Fittings
- Flanges
- Valves
- Bolts & Nuts
4.3. ANTHONE

Industrial Intelligent Instruments

- Pressure Transmitter
- I/O Module
- Signal Isolator
- Safety Barrier
- Paperless Recorder
- Intelligent Power
- Meters

4.4. Endress + Hauser

Endress+Hauser

- Level Meters
- Flow Meters
- Pressure Meters
- Temperature
- System Components & Recorders
- Liquid Analysis

4.5. Dwyer

Dwyer

- Pressure
- Air Velocity
- Flow
- Level
- Temperature
- Process Control
- DataLoggers & Recorder
- Humidity
4.6. Cella

Pressure Gauges
Relative
Test
Differential
Absolute

4.7. Electrolab

Field Communicators
RO Control Systems
Surg Suppressor

4.8. PSNI

Industrial Plant Equipment's & spare parts
4.9. ISATRON

Fire Protection Professional
Gas Detection
Fire Alarms
Fire Detection
5. Organization Data

5.1. Organization Chart

5.2. Staff

A. Process Department
- Mr. Arjang Ekbatani (Manager)
- Miss Neda Nazemi (Senior Engineer)
- Miss Pegah Shahsavarzadeh Jangi (Junior Engineer)
- Mr. Pirooz Pazouki (Junior Engineer)
- Miss Ladan Behroozi (Junior Engineer)
- Mr. Amirhossein Mohseni (Junior Engineer)

B. Piping Department
- Miss Mina Karimi (Manager)
- Mrs. Nahid Mazinani (Senior Engineer)
- Mr. Kian Kiani (Senior Engineer)
C. I&C Department
  - Mrs. Negar Sarraf (Manager)
  - Mohammad Mirzaee (Senior Engineer)
  - Mr. Arman Zalpoor (Senior Engineer)
  - Miss Ghazaleh Ahmadi (Junior Engineer)

D. Civil Department
  - Mr. Kiarokh Zamani (Manager)
  - Mr. Armin Maddah (Senior Engineer)
  - Mr. Reza Lotfi (Junior Engineer)

E. Electrical Department
  - Mr. Mohammad Bakhshi (Manager)
  - Miss Anita Lahooti (Junior Engineer)

F. Mechanical Department
  - Mr. Nisa Khareghani (Manager)
  - Mr. Roozbeh Mansouri (Senior Engineer)

G. Planning & Project Control Department
  - Mr. Mehrdad Katamipour (Senior Engineer)
  - Miss Azadeh Razmkhah (Senior Engineer)
  - Mr. Amir Gouhari (Senior Engineer)

H. Drawing Section (CAD Operators)
  - Miss Zarindokht Ejal
  - Mr. Omid Dastafshan

I. Procurement Department
  - Mr. Farrokh Atai (Foreign Supply)
  - Mr. Hamid Sadeghi (Local Supply)
J. Administration and Financial Department

- Mr. Mehran Mohammadrezaei
- Miss Sommaye Farrokhipour
- Mrs. Samaneh Hosseini
- Miss Maryam Mirzaee
- Mr. Mostafa Zamani

K. IT Department

- Mr. Saeed Ghorbani
## 5.3. Quick Recruiting of Skilled Personnel

<table>
<thead>
<tr>
<th>Positions</th>
<th>Location</th>
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<tbody>
<tr>
<td></td>
<td>Head Office</td>
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<tr>
<td>Manager</td>
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<tr>
<td>Supervisor</td>
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<tr>
<td>Mechanical Technician</td>
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<tr>
<td>Electrician Technician</td>
<td></td>
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<tr>
<td>Instrument Technician</td>
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<td>Control Technician</td>
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<tr>
<td>Pipe welder</td>
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<tr>
<td>Plate welder</td>
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<tr>
<td>Pipe Fitter</td>
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<tr>
<td>Rigger</td>
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<tr>
<td>Insulation Technician</td>
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<tr>
<td>Insulation Worker</td>
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<tr>
<td>Painter</td>
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<tr>
<td>Formworker</td>
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<tr>
<td>Rebar Worker</td>
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<tr>
<td>Civil Worker</td>
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<tr>
<td>Truck driver</td>
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</tr>
<tr>
<td>Skilled Worker</td>
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</tr>
<tr>
<td>Normal Worker</td>
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<td><strong>Total</strong></td>
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## 5.4. Hardware resources and special purpose softwares

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<th>Item No.</th>
<th>Description</th>
<th>No.</th>
<th>Model</th>
<th>Location(s)</th>
<th>Remarks</th>
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<tr>
<td>1</td>
<td>PC Computer</td>
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<td>P IV &amp; V</td>
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<tr>
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<td>Printer</td>
<td>3</td>
<td>Laserjet &amp; inkjet</td>
<td>Office</td>
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<td>Scanner &amp; Copy Machine</td>
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<td>A3</td>
<td>Office</td>
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<td>Communication</td>
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<tr>
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<td>Piping Div.</td>
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<td>Piping. Div.</td>
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<td>Mech. Div.</td>
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<td>Ansys</td>
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<td>Mech. &amp; Civil Div.</td>
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<td>Dialuxe</td>
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<td>Elec. Div.</td>
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<tr>
<td>12</td>
<td>Sap</td>
<td>90,2000</td>
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<td>Civil Div.</td>
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<tr>
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<td>Safe</td>
<td>2000</td>
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<td>Civil Div.</td>
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<tr>
<td>16</td>
<td>Rohm &amp; Haas</td>
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<td>Process Div.</td>
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<td>Prolite</td>
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<td>Process Div.</td>
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<td>Primavera</td>
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<td>Planning Div.</td>
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<td>Accounting software</td>
<td></td>
<td></td>
<td>Financial Dept.</td>
</tr>
</tbody>
</table>
5.5. Scheduling and cost control

- Scheduling System:
  
  Microsoft Project, Primavera & Microsoft Excel

- Cost control System:
  
  Finantial softwares

5.6. Quality Control System

- Quality Control of purchased products against the required standards. Implementation of methods for optimizing the production process.
- Design of Statistical methods for controlling the quality of manufacturer products.
- Inspection and control of purchased products and raw material
- Welding Quality Testing (WQT) instruction
- None Distructive Testing (NDT) procedures
- PQR and WPS instructions

5.7. List Of Project Activities

- Design & Engineering
- Manufacturing of Special Equipment
- Procurement
- Sea Shipment
- Building Construction
- Installation of Mechanical Equipment
- Installation of Electrical and Communication Systems
- Installation of Instruments
- Installation of Control System
- PLC Programming
- Performance Testing and Commissioning
- Painting and Covering
- Insulation Work
- Marketing of Manufactured Equipment
- After Sales Services
- Supervision on Construction and Installation
- Training
- Execution
- Equipment Maintenance
- Spare Parts Supply
6. Our proficiencies

6.1. Municipal & Industrial Water Treatment

6.1.1. Chemical Dosing

Bulk storage, handling and metered dosing systems for water treatment coagulants, coagulant aids, oxidizers, adsorbents and pH correction agents including:
- Alum (liquid and powder)
- Ferric chloride
- Polyaluminium chloride
- Polyelectrolyte (liquid and powder)
- Powder activated carbon
- Lime (hydrated and quicklime)
- Soda ash
- Caustic soda (liquid and powder)
- Sulphuric acid
- Carbon dioxide
6.1.2. Flash Mixing
High intensity mixers rapidly disperse coagulant chemicals efficiently into the raw water stream.
Both dynamic (e.g. mechanical high speed mixer) and static in-line designs are applicable.

6.1.3. Flocculation
Low shear rotary or oscillatory mixers are employed to build settle able floc from the chemically dosed influent.
Paddle type mixers (with variable speed option) and hydraulic baffled channel designs are applicable.

6.1.4. Clarification
Clarifier tanks and mechanisms to remove settle able floc solids or floatable floc material (dissolved air flotation) depending on the raw water characteristics.
Many clarifier designs are available to suit rectangular and circular tank installations, including appropriate sludge scraper and effluent draw-off mechanisms.
Clarifier designs available include:
> Conventional unhindered settling (circular or rectangular)
> Central flocculation chamber
> Tube settlers
> Static sludge blanket
> Pulse flow sludge blanket
> Solids recirculation
Sludge draw-off methods include:
> Chain and flight scraper
> Travelling bridge scraper
> Hopper bottom (gravity discharge)

6.1.5. Filtration
Granular media filtration systems to remove fine non-settle able material. Media systems include silica sand, anthracite, GAC for organics adsorption, gravel, garnet available in mono, dual, and multimedia form.
Backwash systems are available as manual and automatic control and comprise air scour, combined air scour/low rate backwash, low
rate backwash and high rate backwash phases as appropriate.
Filter designs available include:
> Conventional open gravity cell
> Pressure filters
> Automatic self backwashing filters
Filter rate control methods include level controlled, rising level and declining rate.
Filter media systems are designed to suit the specific application and include:
> Mono sand media
> Coarse deep bed media
> Dual media (coal/sand)
> Multimedia (coal/sand/garnet)

6.1.6. DAF
A. Clarification
Flotation is used for clarification of water or wastewater as well as thickening of the sludge.
The influent wastewater is mixed with part of the clarified effluent (recycle flow) which is pressurized to 400-500 kPa in the presence of sufficient air to become saturated. When the pressurized air-liquid recycle is released to atmospheric pressure in the flotation unit, minute air bubbles are released from the solution. The solids of influent are floated by these minute air bubbles attached to the solids. The air-solid mixture (float) rise to the surface, where it is skimmed off. The clarifier effluent is removed at the bottom through a baffle and flows to the top weir for discharge.

B. Thickening of Sludge
DAF is commonly used for thickening WAS in sewage treatment plant. Polymer is required normally and solids can be thickened sufficiently. DAF is a 24 hour continuous process and can run 24 hours a day with little attention. It will keep the sludge in aerobic condition which is important to prevent phosphorous being released in modern BNR plants.

C. Industrial Wastewater
DAF has a wide range of applications for industrial wastewater treatment. It is used to remove suspended solids and oil and grease from industrial wastewater, mainly in food processing.
6.1.7. Disinfection

Disinfection systems for treated water to inactivate pathogenic microorganisms and render the water completely safe for drinking and domestic use.

More recently, emphasis has been placed on the inactivation of protozoan cysts such as giardia and cryptosporidium which require specific consideration and careful application of oxidation/disinfection systems.

Total disinfections processes available include use of:

> Chlorine
> Sodium hypochlorite
> Calcium hypochlorite
> UV
> Ozone
> Chloramine
> Chlorine dioxide
6.2. Municipal Sewage Treatment

6.2.1. Screening Removal System

The wastewater or raw water from rivers or seawater inlets contain large floating objects, fibrous material or other foreign objects which will cause problems for downstream treatment and pumping equipment. These no degradable objects have to be removed or they may lead to blockages, these objects are called screenings. Manual bar screens may be adequate for smaller plants; however, mechanical screen is normally used to remove the screenings from the water.

Mechanical screen comes from different apertures and types. In terms of the aperture or size of the object that is to be removed, it is separated into fine screen and bar screen. Generally, we call all
screens with an aperture less than 10mm diameter or gap for slot opening fine screens.

**Fine Screens**
- Travelling belt type fine screen for water intake
- Above Channel rotating Drum Screen
- In channel Trommel Screen
- Walking Step Type Fine Screen
- Sieve Bend Static Screen
- Coarse Screen (Bar Screen)
- Inclined type
- Multiple Raked
- Cable Driven
- Climber Type
- Back Rake Chain and Sprocket Type
- Rotary Type
- Fully Rotary
- Semi-Rotary

The choice of type of bar screen depends on the channel depth and width and preference for above water moving parts and headroom requirements.

### 6.2.2. Grit Removal System

Grit particles which are smaller that the aperture of the screen will pass through and cause abrasive problems on pipes and pumps and sludge handling equipment. Also, the grit particles can settle in channels, aeration tanks floor and sludge digesters which can create maintenance problems. Therefore, a grit removal system is required for most sewage treatment plants.

Removal of grit is achieved by differential sedimentation, in which the flow velocity is so controlled that grit may settle, but most of the organics are retained in suspension. Velocity control may be achieved hydraulically, as in constant velocity chambers, by air-induced helical rolling motion, as in aerated chambers, or by mechanically induced vortex chamber.

1. **Constant Velocity Channel- Travelling bridge grit collector.**
2. **Aerated Grit Chamber - Air lift of pumped grit removal system.**
3. **Course bubble diffusers with baffles for aeration.**
4. **Vortex Grit Chamber**
the grit collected will be transferred by recess impeller grit pump or air lift pump to dewatering devices to reduce the water content. Screw type grit classifier or sieve bend are used for dewatering. Excess water will return back to the inlet channel.

6.2.3. Activated Sludge Aeration
Aeration systems are available for continuous or intermittent systems in conventional basins, lagoons and racetrack or circular oxidation ditch configurations. Ceramic and membrane type disc and tubular diffusers are offered providing the highest available efficiencies. Integral mixing systems are offered for optimized performance.

6.2.4. Primary & Secondary Clarifier
Gravity sedimentation is one of the most frequently used processes in wastewater treatment. Many wastewaters contain settleable suspended solids that can be removed under quiescent conditions. Particles, solid, liquid, or gaseous that have a different density from that of the suspension medium (water), will settle downward because of gravity or rise to the top because of buoyancy. In other cases where suspended materials do not settle readily, upstream unit processes are used to convert colloidal (non-settleable suspended solids) and soluble pollutants into settleable suspended solids for gravity sedimentation removal. Suspended solids removal is important because of the pollutants associated with the removed solids, such as organics, nutrients (nitrogen, phosphorus), and heavy metals.
Gravity sedimentation occurs in basins frequently called clarifiers. Secondary clarifiers are used to remove the settleable suspended solids created in biological treatment processes such as the activated sludge and trickling filter process.
Various types of Primary and Secondary clarifiers.
Circular
> Peripheral Drive
> Centre Drive
Rectangular
> Travelling Bridge
> Chain and Flight
> Wire Rope and Flight
6.2.5. Filtration

Granular media filtration systems to remove fine non-settleable material. Media systems include silica sand, anthracite, GAC, gravel, garnet all available in mono, dual, and multimedia form. Backwash systems are available as manual and automatic control and comprise air scour, combined air scour/low rate backwash, low rate backwash and high rate backwash phases as appropriate. Filter designs available include:
> Conventional open gravity cell
> Pressure filters
> Automatic self backwashing filters
> Filter rate control methods include level controlled, rising level and declining rate.
Filter media systems are designed to suit the specific application and include:
> Mono sand media
> Coarse deep bed media
> Dual media (coal/sand)
> Multimedia (coal/sand/garnet)

6.2.6. Membrane Bio Reactors (MBR)

The system utilizes a flat sheet membrane panel arrangement. A series of these membranes are submerged directly within an activated sludge treatment tank, greatly simplifying the overall plant layout and provide directly micro-filtered product water. By this configuration, the energy required for aeration of the treatment liquor also generates an upward cross flow over the membranes, keeping fouling of the filtration surface to a minimum.
The membrane bioreactor treatment produces a high quality disinfected effluent. The process requires no primary or secondary settlement stages and no additional tertiary treatment or UV stages to achieve disinfection suitable for many applications. Raw sewage only requires screening and degritting prior to entering the membrane bioreactor tank and subsequent discharge.

MBR Applications:
• Suitable for Class A Reuse.
• Suitable as a pre-treatment for Reverse Osmosis applications.
• Compact Wastewater Treatments for Developments for Irrigation, and Non-Potable Reuse.
• Suitable Treatment Process to meet discharge requirements for Marine Life, Bathing Sites, etc.
• Retrofit into existing Wastewater Plants for increased Plant Capacity and better effluent quality.

6.2.7. Sludge Thickening
The solids generated by the sewage treatment process (sludge) need to be thickened in order to reduce the volume of sludge and dewatering system.

6.2.8. Sludge Digestion
There is a complete system for anaerobic and aerobic digestion system. For anaerobic digestion, we can offer steel digester cover, sludge circulation, sludge heating and digester gas mixing systems.

Digester Mixing System
a) Multiport Gas Mixing Valve - For multiple lances digester gas mixing
b) Gas Lance
c) Draft Tube
Steel Digester Cover (Floating and fixed)
a) Floating steel digester cover complete with roller guides and water seal.
b) Fixed digester cover for primary.

Sludge Heat Exchanger/Heater
(i) Innovative combined boiler/heat exchanger sludge heater. No separated boiler.
(ii) Non-clogged tube-in-tube sludge heater.

6.2.9. Sludge Dewatering
The solids generated by the sewage treatment process need to be dewatered in order to reduce the volume and save on disposal costs. There is a complete system using different dewatering methods including belt press, centrifuges, screw press, etc. The system will consist of a sludge conditioning system, dewatering equipment, sludge conveyor and storage silo.
7. Personnel’s C.V

7.1. Process Department

7.1.1. **ARJANG EKBATANI**

**Education:**  B.Sc. degree  Environmental Health Engineering  
M.Sc. & PhD degree Environmental Engineering

**Working Experiences:**
- Member of Scientific Board  (Technical Faculty of Azad University) 1997 up to now
- Abiran Co. (Contractor Company), 1997 up to 2003. Technical Manager
- Darya petro sazeh Co. (WTP & WWTP & Petrochemical company) 2007 up to now. Process Manager

**Working Projects:**
- Sanandaj Water Treatment Plant. Design &Calculation of process unit. Abiran Co.
- Sanandaj Municipal Wastewater Treatment Plant .Design &Calculation of process. Unit Abiran Co.
- Tehran South Municipal Wastewater Treatment Plant. Design & Calculation of process unit. Abiran Co
- Abadan Refinery Demin Water Treatment Plant .Design &Calculation of process Unit. Abiran Co
7.1.2. **NEDA NAZEMI**

**Education:** M.Sc. in Environmental Biotechnology (Sep. 2007 - Feb. 2010), Tarbiat Modares University  
– Research Focus: In this research, denitrification of contaminated waters with nitrate with two species of Methylobacterium extorquens and Hyphomicrobium denitrifican was investigated using methane in a bubble column.

- B.Sc. in Chemical Engineering (Sep. 2002 - Jun. 2007), Chemical Engineering Department, Sharif University of Technology

**Working Experiences:**
- Poly –acryl Iran - Engineering Trainee  
  Since July till August 2004  
  Familiarity with the production process of Acrylic and polyester. Familiarity with water and waste water treatment systems and equipments for analyze of water quality and reuse of them. Preparing and checking the reports of manufacturing line.

- Aria Consultant Engineering Company - Environmental Engineer  
  Since June 2006  
  Preparing Engineering Cost Estimation documents for proposals

**Working Projects:**
  - Responsibilities:  
  - Design of water & waste water treatment plant for both sanitary and industrial purposes  
  - Coordination and Preparation of technical documents for proposals

7.1.3. **PEGAH SHAHSAVARZADEHJANGI**

**Education:**  
2009 Tarbiat moddarres University – Tehran  
M.S. in Chemical Engineering (Biotechnology)  
2005 Shahid Bahonar University – Kerman  
B.S. in Chemical Engineering

**Seminars:**  
Training Seminar tited (Effect of soil properties on Bioremediation) in environment organization conference  
With subject eliminating contaminants of water and soil  
In 2008
Training Seminar titled (Effect of soil properties on Bioremediation) in Biotechnology conference in Tehran University in 2008

7.1.4. PIROOZ PAZOUKI

Education: 10/1997 – 02/2003 BSc-Chemical Engineering
Azad University of Technology and Engineering
School of Chemical Engineering
Tehran, Iran

Working Experiences:

- 2009/09 Up to now Darya Petro Sazeh
  Water Treatment Plant. Design & Calculation of process
- 01/2005-2009 Technical support – R&D
  Daqiq Chimie Co. – PVC Plastisol section, Fouman Chimie,
  Tehran, Iran
  Technical support & research development and sales executive under
  License of DOW Auto motive
- 01/2004-10/2004 Designer-water and waste water treatment
  Zharf Tara Co. – Process Department, Tehran, Iran
  Designing biological and chemical treatments and domestic sludge
  packages
- 04/2003-04/2004 Editorial member
  (part time) Arang cultural Institute, Tehran, Iran
  Analysis of the technological abilities of Iran’s oil industry
  Edited and published a book on foreign investment in Iran’s oil industry
- 08/2003-02/2004 Process & quality control manager
  Iran Air force, Tehran, Iran
  Electroplating and electrochemical coating of aircraft apparatus
  Mobilizing and installing the furnace plating by Argon gas
  (in collaboration with Chinese companies)
- 03/2001-04/2002 Designer and sales executive – water & wastewater treatment
  Zolal Iran Co. – Process Department, Tehran, Iran
  Biological and chemical treatment s for water and industrial sludge
- 04/2004-01/2005 English Teacher (pre-TOEFL)
  (part time) Allameh Tabatabaee University, Tehran, Iran
- 09/1997-02/2001 Journalist
  (part time) Akhbar newspaper, Tehran, Iran
Working Projects:

7.1.5. **Ladan Behroozi**

**Education:** 2007 Alzahra University
Mastar of analytical chemistry

**Working Experiences:**
- 2007 (3month) – meshiran company
  (Consultant in QC)
- 2008-2009 – Pajan sefit co.
  (Technical Consultant in QC)
- 2009- Hokamaeie Co.
  (Expert of P&D in nano technology)
- 2009 up to now – Daryapetrosazeh Co.
  (Process Engineer)

**Working Projects:**

7.1.6. **Amirhossein Mohseni**

**Education:** 2008 Azad University
B.S degree Chemical engineering
(Process industry petroleum design)

**Working Experiences:**
- 2010 up to now - Daryapetrosazeh
  (Executive Assistant)
- 2009-2010 – Petrosazeh kavian
  (Process Engineer)
Working Projects:

- Khasht Project (Process Engineer)
- Isfahan Refinery upgrading project (Process Engineer)

7.2. Civil Department

7.2.1. **KIAROKH ZAMANI**

**Education:**  Azad University - Semnan Unit (Civil Engineering)
Graduated in 1998. (B.Sc)

**Working Experiences:**

- Daryacheh tar Co. (Industrial company) ................. 1997 up to 1999.
  Head of site technical office
- Payadezh Co. (Consultant company) ..................... 1999 up to 2001.
  Designer - Project manager
- Kashalot Co. (Civil contractor company) ............... 2001 up to 2002.
  Head of technical office
- Hormozgan power plant (Civil E.P.C. company) ......... 2002 up to 2003.
  Head of site technical office - Project control supervisor
  Designer - Project coordinator - Head of design team
- Darya petro sazeh Co.
  (WTP & WWTP Treatment & Petrochemical company) .......... 2008 up to now.
  Civil department manager - Darquain Engineering Manager

**Working Projects:**

- WTP Mobin petrochemical project; Industrial water treatment plant.
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Andisheh Zolal Co.

- ET Mobin petrochemical project; Industrial & oily waste water treatment plant.
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Andisheh Zolal Co.
• Iran khodro khorasan waste water treatment train
  Coordinating process procedure with civil considers and providing tender documents.
  Andisheh Zolal Co.

• CPP Tabriz thermal power plant; condensing polishing plant
  Design and providing drawings of neutralization sumps, equipments foundation and pressure vessels.
  Andisheh Zolal Co.

• WTP Khatoon abad cooper plant; Demin water treatment plant.
  Design and providing drawings of structures, basins, pipe racks and buildings.
  Andisheh Zolal Co.

• Oushan water treatment plant.
  Design and providing drawings of structures, basins and buildings.
  Andisheh Zolal Co.

• Fasham water treatment plant.
  Design and providing drawings of structures, basins and buildings.
  Andisheh Zolal Co.

• Larestan water treatment plant.
  Design and providing drawings of structures, basins and buildings.
  Design, modeling and supervising of 150 m3 elevated water tank with 20 m. height.
  Andisheh Zolal Co.

• Ammonia & Urea complex in Kermanshah petrochemical plant.
  Design and providing drawings of structures, basins, pipe racks, sleepers and buildings.
  Design and supervising of biogas storage tanks.
  Andisheh Zolal Co.

• WTP Fajr petrochemical project; Petrochemical utility plant.
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Design and supervising of cooling towers concrete structure.
  Andisheh Zolal Co.

• Kharg Oily waste water treatment plant.
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Design and supervising of pressured vessels foundation.
  Design and supervising of IGF (induced gas floatation) foundation.
  Design and providing drawings of skimmer tanks foundation.
  Redesign and modeling of gas flare.
  Andisheh Zolal Co.
- Galikeh Water Treatment plant.
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.

Design of roads, ditches, pipe & electrical trenches and landscaping. Khazarab Co.

- Darquain Oil Field Water Treatment Plant
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Design and supervising of pressured vessels foundation. Darya petro sazeh Co.

- Basrah Refinery Water Treatment Plant
  Design and providing drawings of structures, basins, buildings, pipe racks and storage tanks.
  Design and supervising of pressured vessels foundation. Design and supervising of DGF (Defused gas floatation) foundation. Darya petro sazeh Co.

7.2.2. **ARMIN MADDAH**

**Education:** Azad University – Semnan Uint [Civil Engineering] B.S. Degree

**Working Experiences:**
- Working for Parsaban CO. [Skyscraper Executer] as Civil Engineer & Project control - 2005 up to 2006
- Working for some CO. as Design and Providing drawings and details of building and check lists as part time job 2006 up to 2007
- Working for Jahan Kosar CO. [metro project] as Civil Engineer & supervisor Design and Providing drawings and details-.2007 up to 2008
- Working for Tarh va Tadbir Sanaat CO. [Seismic Research Center] as Civil Engineer ............... 2008 up to 2008
- Working for Darya Petro Sazeh CO. [WTP & WWTP Treatment & Petrochemical company] as Civil Engineer 2008 up to now.

**Working Projects:**
- Sadaf project Skyscraper Executer in Tehran
- Metro line 1 Resumption, Station T1, Tunnel Ventilators and Parking building.
- Earth quake Resistant for building and equipments for sites of National Iranian Oil Company
- Darquian oil field water eatment plant
- Basreh Refinery water treatment plant
7.2.3. **REZA LOTFI**

**Education:** 2008 Isfahan University of Technology MS degree in Structural Engineering

**Working Experiences:**
- 2009-2010 Pandam Consultant Engineers (Designer Engineer)
- 2008-2009 Tehran Sahab Consultant Engineers (Designer Engineer)
- 2002-2004 Shushtar fortress Engineering Post (Designer Engineer)

**Working Projects:**
- Azizkian Roller Compacted Concrete dam
- Azizkian Horseshoe water conveyance tunnel
- Chalus pumpage station pumproom steel sole
- Sahand pumpage station concrete tank
- Konarak Sewage Refinery aeration concrete tank
- Konarak Sewage Refinery sedimentation concrete tank
- Ramsar water refinery concrete sole
- Ramsar water refinery retaining concrete wall
- Ghazvin Bolvar Moallem motorway concrete bridge
- Shushtar Fortress walkway steel bridge

7.2.4. **ZIAEDDIN ASHRAFI**

**Education:** 1989 Gilan University 
B.S degree in Civil Engineering

**Working Experiences:**
- 2007 Up to now - TavanAzmayan (Executive Assistant)
- 2004-2007- Zolal Iran (Fars Project) (Managing Director)
  (Larestan Wastewater Treatment) (Managing Director)
  (Shiraz Wastewater Treatment) (Managing Director)
  (Oshan & Fasham Wastewater Treatments) (Managing Director)
- 1994-2004 - Dalarmeh Co. Member of board
Working Projects:

- (Fars Project) (Managing Director)
- (Larestan Wastewater Treatment) (Managing Director)
- (Shiraz Wastewater Treatment) (Managing Director)
- (Oshan & Fasham Wastewater Treatments) (Managing Director)

7.3. Piping Department

7.3.1. **MINA KARIMI**

**Education:** Bachelor of Mechanical Engineering (B.M.E) - Heat Transfer & Fluid Mechanics, Faculty of Engineering, University of Tehran, in Feb. 2000. (11.1378) Secondary school certificate (field of study: Mathematics & Physics) FARZANEGAN high school affiliated to National Organization for Developing Exceptional Talents (NODET) in Jun. 1995 (03.1374)

**Working Experience:**

Working as an Expert Piping Engineer for ZOLAL IRAN Water & Wastewater Treatment Company
Basic & Detail Piping Design including Piping Technical Specifications, 3D-Modeling in CADWORX & PDMS software, Installation Documents & Detail drawings, Supporting & Flexibility Analysis & Material Take-Off, on the basis of ASME & DIN Standards in following projects:

Working as a Mechanical Engineer for KHERAD Water Treatment Company

Working as a Part-time Mechanical Engineer for Water Resources Investigation Consulting Engineers Co. (WRI Co.) in Performing.

Working as a Part-time Mechanical Engineer for IRAN ARC Consulting Engineers Co. in following tasks:
- HVAC, Sanitary Wastewater & Plumbing System Design & Detail Drawings for Residential Buildings, Dormitories, Hospitals, etc.

Working as a Part-time Mechanical Engineer for ABTAB MECHANICS Co., Design & Engineering of Industrial Elements.

Working Projects:
- Darquain Water Treatment Plant and Water Transfer Pipeline
- Basrah refinery Wastewater Treatment Plant
- And Relevant Tenders and Other Miscellaneous Projects
- Direct Reduction and Steel Making Plant of Sabzevar Steel complex.
- Direct Reduction and Steel Making Plant of Neiriz Steel complex.
- Direct Reduction and Steel Making Plant of Shadegan Steel complex.
- Mobin Petrochemical Co. Wastewater Treatment plant including COC Train, POC Train, Chemical Dosing unit, Oily Sludge Treatment, Bio-Sludge Treatment
- Kermanshah Petrochemical Co. Water Treatment plant including Pretreatment & Filtration unit, Demin. & CPP unit, Chemical Dosing unit, Neutralization unit & Potable Water unit
- Razi Third Ammonia Plant Packages: Cooling Water Side Stream Filters & Sea Water Cooling Tower Side Stream Filters
- Qatran Demin Water Treatment Plant
- Kharg Island Wastewater treatment system including IGF & other Pertinent systems
South Pars Gas Field Development Phase 9 & 10 including Condensate Deoiling Package, Polishing Water Package, Potable Water Package
Larestan Water Treatment Plant, Ordinary Civic Water Treatment based on Clari-floculation & Filtration units, Chemical Injection & Chlorination systems
Tabriz Power Condensate Polishing Plant including Regeneration, CPP & Neutralization units
Fajr Water Treatment plant Extension Units
Rahkar Water Treatment sample packages
Initial Works on design & management of following projects: Ushan, Fasham Meygoun, civic Water Treatment Plant, Arak civic Water Treatment Plant & Yazd civic Water Treatment Plant
And Relevant Tenders & other miscellaneous projects

7.3.2. NAHID MAZINANI

Education: Azad University – Tehran Unit
B.S. Physics

Working Experiences:
• 2008/10 till Now DaryaPetroSazeh Co.
  Working as the Piping Expert for DaryaPetroSazeh Company
  Entirely Design, Preparing Piping Documents,

• 2003-2008 ANDISHEH ZOLAL Co.
  Mobin Petrochemical Co. Wastewater Treatment plant including COC Train, POC Train, Chemical Dosing unit, Oily Sludge Treatment, Bio- Sludge Treatment
  Kermanshah Petrochemical Co. Water Treatment plant including Pretreatment & Filtration unit, Demin. & CPP unit, Chemical Dosing unit, Neutralization unit & Potable Water unit
  Rahkar – Cooling Water Chemical Injection Pacjage
  Arak Water PreTreatment & Treatment Plant – Sand Filter & Active Carbon
  Yazd Urban Wastewater Treatment Plant – Grit chamber – Aeration & Pumpstation
  Razi Third Ammonia Plant Packages: Cooling Water Side Stream Filters
• 2002 – 2005 ZOLAL IRAN Co.
  Mobin Petrochemical Co. Water Treatment Plant including Demin & CPP unit, Potable unit, Chemical Injection unit, Reservoirs & Pump Station
Qatran Water Treatment Injection Packages
Shiraz Wastewater Treatment
An Aerobic Digester

• 1999 – 2002 Mapna Co.
Control Project Expert

Working Projects:

• Darquain Water Treatment Plant and Water Transfer Pipeline
• Basrah refinery Wastewater Treatment Plant
• And Relevant Tenders and Other Miscellaneous Projects
• Direct Reduction and Steel Making Plant of Sabzevar Steel complex.
• Direct Reduction and Steel Making Plant of Neiriz Steel complex.
• Direct Reduction and Steel Making Plant of Shadegan Steel complex.
• Mobin Petrochemical Co. Wastewater Treatment plant including COC Train, POC Train, Chemical Dosing unit, Oily Sludge Treatment, Bio-Sludge Treatment
• Kermanshah Petrochemical Co. Water Treatment plant including Pretreatment & Filtration unit, Demin. & CPP unit, Chemical Dosing unit, Neutralization unit & Potable Water unit
• Razi Third Ammonia Plant Packages: Cooling Water Side Stream Filters & Sea Water Cooling Tower Side Stream Filters
• Qatran Demin Water Treatment Plant
• Kharg Island Wastewater treatment system including IGF & other Pertinent systems
• South Pars Gas Field Development Phase 9 & 10 including Condensate Deoiling Package, Polishing Water Package, Potable Water Package
• Larestan Water Treatment Plant, Ordinary Civic Water Treatment based on Clari-flocculation & Filtration units, Chemical Injection & Chlorination systems
• Tabriz Power Condensate Polishing Plant including Regeneration, CPP & Neutralization units
• Fajr Water Treatment plant Extension Units
• Rahkar Water Treatment sample packages
• Initial Works on design & management of following projects: Ushan, Fasham Meygoun, civic Water Treatment Plant, Arak civic Water Treatment Plant & Yazd civic Water Treatment Plant
• And Relevant Tenders & other miscellaneous projects
7.3.3. **KIAN KIANI**

**Education:**  
B.S. Mechanical Engineer (2003 Tehran azad University)  
A.S. Machinery Mechanic (1997 Kashan University)

**Working Experiences:**

- **2011 up to Now** DaryaPetroSazeh Co.  
  Working as the Piping Expert for DaryaPetroSazeh Company  
  Entirely Design, Preparing Piping Documents,  
- **2010-2011** Petroland kian Co.  
  Technical Coordinator  
- **2008 – 2010** Tehran Oil Refinary Co.  
  Head of piping engineering  
- **2006 – 2008** Iran khodro Co.  
  Mechanical expert in central office  
- **2002 – 2004** Nashre sanat farda Co.  
  Head of engineering services in bandar Imam petrochemical complex  
- **2000 – 2002** Kajireh Co.  
  Fixture Designer  
- **1999 – 2000** Puya Co.  
  Fixture Designer

**Working Projects:**

- Darquain Water Treatment Plant and Water Transfer Pipeline  
- Basrah refinery Wastewater Treatment Plant  
- Fajr petrochemical incinerator project  
- Light naphtha hydro treating and isomerization project  
- Head of engineering services in bandar Imam petrochemical complex
7.4.  Electrical Department

7.4.1.  **MOHAMMAD BAKHSI**

**Education:**  Azad Islamic University, Power Electrical Engineering  
Graduation Date: September 1995

**Working Experience:**
- 1999 -2001  Niroo Va Tavan  
- (Production management of maintenance of electrical equipment)
- 2002  Zolal Iran Co.
- 2003-2007  Andisheh Zolal
- 2007-2010  Bina Consulting engineering  
- I have been involved in Electrical Equipment Installation.

**Working Projects:**
- Montazer ghaem combined cycle power plant  
- Kerman Combined Cycle Pawer plant  
- Fajr Petrochemical Plant-mahshahr Iran.
- Darquain Water Treatment Plant and Water Transfer Pipeline  
- Basrah refinery Wastewater Treatment Plant

7.4.2.  **ANITA LAHOUTI**

**Education:**  Azad Tafresh University, Electronic Engineering B.S.  
Graduation Date: 2010

**Working Experiences:**
- 2010 Up to now Darya Petro Sazeh

**Working Projects:**
- DARQUAIN OIL FIELD WATER TREATMENT PROJECT  
- SYRIAN ARAB REPUBLIC( LATAKIA) SEWAGE TREATMENT PLANT  
- SYRIAN ARAB REPUBLIC(TARTOUS) SEWAGE TREATMENT PLANT  
- SOUTH PARS GAS FIELD DEVELOPMENT PHASE 12 SEWAGE TREATMENT PACKAGE(2000)  
- SOUTH PARS GAS FIELD DEVELOPMENT PHASE 12 SEWAGE TREATMENT PACKAGE(6000)
7.5. I & C Department

7.5.1. **ARMAN ZALPOUR**

**Education:** 2005 Shahid Bahonar University – Kerman  
B.S. in Electrical Engineering  
2009 Ghazvin Azad University  
M.S. in Mechatronic

**Working Experiences:**
- 2009 DaryaPetroSazeh  
  (Basrah Refinery Wastewater – Darquain Water Treatment)
- 2009 PeteroAsmari International  
  (I &C Department)
- 2006 Hendeseh Pars Co.  
  (Basic Detail – I & C Department)
- 2006 Abnic Co.  
  (Kermanshah Polymer Wastewater)
- 2002-2003 Kerman Tablo Co.  
  (MV Project)

**Working Projects:**

7.5.2. **GHAZALEH AHMADI**

**Education:** Field: Electrical Engineering  
Branch: Electronic Engineering  
University: Islamic Azad University of Garmsar  
Date of Graduation: 14.12.1386  
Also degree of measuring instruments from Queshm Voltage Company

**Working Experience:**
- For 6 months in WorleyParsons company
- From 05.1388 till now in Darya Petro Sazeh company.  
  (Job Title: I&C Engineer)
Working Projects:

7.5.3. MOHAMMAD MIRZAAEE

Education: University of Uromia – Iran (B.Sc Electronic Engineering)  
British Columbia Institute of Technology – Vancouver  
Canada Computer System Technology Diploma

Working Experiences:
- 2004 Up to now  Descan Energy Systems International  
(Control Engineer)  Dubai, United Arab Emirates, Vancouver
- 2002 - 2004  Gasmaster Industries INC.  
(Control Engineer)  Surrey BC
- 2001 - 2002  Thrive Media INC.  
(Software Developer)  Vancouver BC
- 2001 - 2001  Tantalus Communication INC.  
(Software Developer)  Vancouver BC
- 1996 - 1998  National Iranian Oil Engineering & Construction Company (Iran)  
(Instrumentation Supervisor)
- 1994 - 1996  Chiyoda Corporation (Japan)  
(Project Management Assistant)

7.5.4. NEGAR SARRAF

B.S degree in Electronic Engineering

Working Experiences:
- 10/2007 Up to now  Darya Petro Sazeh  
(Head of Electrical Department)
- 2006 – 08/2007  Andisheh Zolal  
(I&C Department)
- 2003 - 2005  Hanif Instrument Technology & Control
• 2001 - 2002 **Arian Elevator Company**
  Quality Controlling of elevator control panel, elevator controller boards & boards elements.
• 1998 – 2001 **Dibaj Elvator Company**
  Managing Installation & Operation of Elevator Electrical devices.

**Working Projects:**
- Kharg Island Wastewater Treatment System
- Mobin Wastewater Treatment Plant
- Oiec South Pars Gas Field Development (PHASE 9&10) Assaluyeh-Iran
- Rahkar Moderator, Coolant Purification Package,...
- AMAK(Ahvaz/Marun Gas Compression)
- Ilam Gas Treatment, Plant Utility Boilers Project
- Pataveh Compressor Station (Station Control System Revamping)

### 7.6. Mechanical Department

#### 7.6.1. **ROOZBEH MANSOURI**

**Education:** Bachlor of technology – Azad University
Mechanical Engineering

**Working Experience:**
- 2010 Up to now Darya Petro Sazeh (Mechanical Engineering)
- 2009 -2010 Fiber Chemical co.
- 2008 - 2009 OIED Co.
- 2006- 2008 Industrial Pioneer of farayand LTD.
- 2005 -2006 Kaave Industrial Group

**Working Projects:**
- Bandar Imam – Acrylonitrile production plant
- Hafikel oil field
- Arak – HDPE production plant
- Arak – PPPE production plant
- Kashan GTPP
- Uromieh GTPP
7.6.2. **BEHROOZ NADDAF**

**Education:** Nanteree University, Paris, France  
B.Sc. in Mechanical Engineering

**Working Experiences:**
- 2004 Up to now Descan Energy Systems International  
(Plant & Mechanical Design Manager)  
Dubai, United Arab Emirates, Vancouver
- 2002 - 2004 Gasmaster Industries INC.  
(Production Supervisor) Surrey BC
- 1988 - 2000 Iran Jar Caps Company  
(General Manager & Process Engineer)  
Karaj Highway, Tehran
- 1980 - 1988 Traz Mold Company  
(Owner and Founder)  
Tehranpars – Tehran

7.7. **Project Control Department**

7.7.1. **AZADEH RAZMKHAH**

**Education:** 1999/10- 2003/08 - Shomal University Iran – Mazandaran  
B.S of industrial Engineering, Major Industrial Production.

**Working Experiences:**
Planning & Project Control Engineer  
Planning & Project Control Engineer  
- 2003/12- 2006/03- Karnegar ravesh  
Planning & Project Control Engineer & & Quality assurance expert  
- 2003/10-2003/12(3 months)- Behsarma  
Industrial engineer
7.7.2. **AMIR GOHARI**

**Education:** B.Sc degree Industrial Engineering from Iran university Of science & technology

**Working Experiences:**

- 2011 /05 Up To Now- Darya Petro Sazeh Eng. Co. Planning & Project Control expert
- 2010- 2011 – Nasb Niroo Co Planning & Project Control Engineer
- 2009- 2010- Regvar Planning & Project Control expert
- 2008 – Toos tine industries Supply Mgmt. Expert
- 2008 – IUST Probability theory & engineering statistics

**Working Projects:**
- Civil portion of Geraveh combined cycle power plant. Nasb Niroo
- Post project of G.C.C.P.P. Nasb Niroo

7.8. **CAD Department**

7.8.1. **ZARINDOKHT EJLAL**

**Education:** 2009 Payame Noor – Shahriyar B.S. in English Translator

**Working Experiences:**

- Hezarrhae pelan 2years
- Pars Konsoulet 5 years
- Zolal Iran 4 years
- Andisheh Zolal 2 Years
- Andisheh Zolal 2 Years in Mobin Project
- (Waste Water petrochemical)
- Andisheh Zolal 2 Years in Mobin Project
- (Waste Water petrochemical)

**Working Projects:**

7.8.2. **OMID DASTAFSHAN**

**Education:** Industrial Electrical Diploma

**Working Experiences:**
- Darya Petro Sazeh 2009 up to now.

**Working Projects:**

7.9. **Procurement Department**

7.9.1. **FARROKH ATAEI**

**Education:** 1976 State University of New York (Buffalo)  
B.S. Industrial Engineering

**Working Experiences:**
- Daryapetrosazeh Co. CEO & Commercial Director  
  2007/08 Up to now
- Parison Food Co. CEO  
  1986/9 Up to now
- Ramid Trading Inc. CEO & General Director  
  1996/4-2007/8
- Sepanta Industrial Co. Commercial Director  
  1989/5 – 1995/8
- Kavandeh Industrial & Mining Co. Managing Director & CO  
  1986/11- 1989/5
- Khodrow Sazan Iran Quality Control Manager  
  1983/6 – 1986/10
- Sazman Sanayeh Melli Iran Board of Director’s office Manager  
  1979/7 – 1983/6

**Working Projects:**
- SOUTH PARS - PHASE 12 SEWAGE TREATMENT PLANT  
  Darya petro sazeh Co.
7.9.2. **HAMID SADEGHI**

**Education:** 1976 Tehran University  
B.S. in Commercial Management

**Working Experiences:**
- 2008/09 Up to now  Daryapetrosazeh  
  (Commercial Manager)  
  (Export Manager)
- 1994-2008/07 Sepanta Co.  
  (Export & Commercial Manager)
- 1987-1990  Paypoosh Co.  
  (Member of board)
  (Vice Managing Director)
- 1980-1985  Sazman Sanaye Melli Iran  
  (Plan & Design Expert)

**Working Projects:**
- SOUTH PARS - PHASE 12 SEWAGE TREATMENT PLANT  
  Darya petro sazeh Co.

7.10. **Administration and Financial Department**

7.10.1. **MOHSEN GHAFOURINIA**

**Education:**  
Feb 1991 - Feb 1993  Markaz Amouzesh Alee Shahid Shamsi Pour Tehran, Iran - Accounting, Other, GPA 15  
Feb 1994 - Oct 1997 Azad University- Mashhad Unit Mashhad, Iran - Accounting, Bachelor(BSc/Bs), GPA 12.5

**Working Experience:**
- 2009 up to now  Daryapetrosazeh co  
  Finance manager (both)
- Nov2008 to May 2009  Mahshadrazi co & Novinavaran co  
  Finance manager (both)
- Dec 2007 - Nov 2008  Akam Construction ompany co  
  Finance manager (both)
Dec 2004 - Dec 2006  Arj Company co
Accounting Manager
May 2002 - Dec 2004  Peymab Company
Chief of Projects Accounting
Jan 2001- Apr 2002  1&1 Company
Senior Accountant
Sep 1994- Feb 1998  Morattab Auditing Institute
Auditor

7.10.2.  MEHRAN MOHAMMAD REZAEE

Accounting, Bachelor(BSc/Bs), GPA 15

Working Experience:
- March 2012 up to now  Daryapetrosazeh co
  Finance manager (both)
- March 2011 to Feb 2012  Pidarpay mana Co
  Finance manager
- Dec 2006 - Nov 2010  Zolal Iran Co
  Project Finance manager

7.10.3.  SAMANEH HOSSEINI

Education:  B.Sc. Software Computer Engineering
Jahade Daneshgahi, 2001

Work Experiences:
- Ara Rayaneh Pars (Graphics) since 2002 to 2004
- Andisheh Zolal (Archive Supervisor & administrative expert) Since 2004 to 2007
- Daryapetrosazeh (Archive Supervisor & administrative expert) Since 2008 Up to now

7.10.4.  SOMAYEH FARROKHIPOUR

Education:  Diploma

Work Experiences:
- Zolal Iran  since 2001 to 2007
- Daryapetrosazeh (Secretary & administrative expert) Since 2007 Up to now
7.10.5. **MARYAM MIRZAAEE**

**Education:** Post Secondary Diploma in Health
Student of accounting

**Work Experiences:**
- Dibaji Cliniqe 2008
- Saman pendar 2008 to 2011
- Daryapetrosazeh 2011 up to now

7.11. **IT Department**

7.11.1. **SAEED GHRBANI**

**Education:** Post Secondary Diploma in Computer (IT)

**Working Experience:**
- 2009 up to now Daryapetrosazeh co
- 2007 up to now Petro Artoon
- 2002 up to now Zolal Iran
- 1998 -2002 O1
- 1997-1998 Kifer Pars
موافقت‌نامه همکاری

شماره: ۸۸/۰۶/۴۳۰

موافقت‌نامه حاصل در تاریخ ۲۴/۱۲/۱۳۸۸ بین:

- شرکت دریا پژوه سازه به آدرس: تهران - خیابان گانگی جنوبی - خیابان دهم - پلاک ۸ - طبقه دوم و به
- نمایندگی آقای محسن محمدی به آدرس: تهران - سارخان - خیابان شادمان - کوچه ولد خانی - پلاک ۲ - طبقه دوم به
- نمایندگی آقای همکاری آقای محسن علی احمدی

با شرایط ذیل متنقّد گردید:

- دو شرکت موافقت نمودند که در مناقصات و طرح‌های داخلی و بین المللی براساس توافق و تبادل طرف‌های
- تدریک و سازماندهی نیم مشترک و یا به صورت کسری بین نیمه به همیشه و از آن سه‌درصد و اجرای
- پروژه‌ها اقدام نمایند.

- دو شرکت موافقت نمودند که هر یک از طرف‌های نیمه به سه شرکت مشترک خود مسئول تهیه و تأمین ضمانت
- نامه‌های زمانی جهت حضور در مناقصات و نزد ضمانت‌های مرتبی بنا بر قرارداد خواهد شد.

- دو شرکت موافقت نمودند که نیمه هر شرکت هر یک از طرف‌های و نحوه توزیع قراردادی حسب مورد، در
- توافق‌نامه‌های جداگانه ای با مشخص مواد و جزئیات همکاری را تعیین نموده و تفاهمی‌ها و
- مفاده‌ها گردید.

- دو شرکت موافقت نمودند که رهبری کسری بین شرکت‌های مشترک با توافق طرفین تعیین گردد.
- طرفین متعهد می‌شوند اطلاعات و مدارک رسیده از طرف دیگر را کاملاً محترم به تمامی ناهموی از افشا یا
- دسترسی استخوان ثالث به آنها جلوگیری نمایند.

- جلب مشترک شرکت ثالث در پروژه‌های مشترک مرتبط به ترازی و توافق طرفین این موافقت‌نامه می‌باشد.
- طرفین خود را متعهد ملزوم به رعایت سطح کیفی و تعهدات مربوطی با برنامه زمان‌بندی و هر نحوه پروژه‌های
- مشترک می‌باشند.

- طرفین متعهد می‌گردند که بعد از توافق برای شرکت در هر مناقصه، بصورت اتحادية عمل نموده و
- به‌جای با شرکت‌ها مجموعه‌ای در این مناقصه همکاری نمایند.

شرکت دریا پژوه سازه نام نمودار نمایندگی

شرکت بادیاو صنعت

[متن نامه‌نامه و تایپ‌های انتقالی]
موقت‌نامه همکاری

شماره: 880/DPS/414

موافق‌نامه حاضر در تاریخ ۱۳۸۸/۰۸/۲۶ بین:

الف- شرکت مهندسی قنابله آدرس: تهران - خیابان شریعتی - پلاک ۱۸۳۴ جدید و به نام‌دیگی آقاسی

ب- شرکت دردا بنوسازه آدرس: تهران - خیابان کاندی جنوبی - خیابان دهم - پلاک ۸ - طبقه دوم و به نام‌دیگی آقایان محمد فرح عطابی و کامل پری

با شرایط ذیل متعهد گردید:

دو شرکت موافق‌نامه نمودند که در مناقصات و طرح‌های داخلی و بین‌المللی براساس توافق و تفاهم طرفین،

- با تشکیل و سازندگی هر قرارداد و با به صورت منسوب انتشار نماید به تنهایی و ارائه پیشنهاد و احراز

طرح‌ها اقدام نمایند.

دو شرکت موافق‌نامه نمودند که هر یک از طرفین نسبت به سهم مشارکت خود مسئول نماید و تأمین ضمانت

نامه‌های مالی جهت حضور در مناقصه و نیز ضمانت‌های مربوط به اخذ قرارداد خواهد شد.

دو شرکت موافق‌نامه نمودند که به صورت مشترک، قرارداد را اجرا نمایند و حسب مورد، در

توافق‌نامه‌ها کارآگاهان آیا مشترک خود مشترکان جریان‌های همکاری‌ها، مبادلات، تقسیم‌فکری وینه و

ماده‌گردد.

دو شرکت موافق‌نامه نمودند که رهبری کنسرسیوم و یا تیم مشترک با توافق طرفین نمایند.

طرفین مشترک منطقه منطقه‌ای، مشترک رسمی از طرف‌های مشترک از طرف‌های مشترک انجام می‌دهد و از آن‌ها با

دسترسی اختصاصی انتخاب می‌شود که به آنها جلوگیری نمایند.

چند مشترک شرکت بالا در پروژه‌های مشترک منعقد به تراضی و توافق طرفین این موافق‌نامه‌باید مشترک مناسب‌هنگام با برتریهای بهینه‌تری و هزینه برخورداری مشارکت با برتریهای بهینه‌تری

طرفین مشترک می‌گردند که بعد از توافق برای شرکت در هر مناقصة، بطور احتکاری عمل نموده و

به‌چوجه با شرکت با مجموعه دیگری آن مناقصة همکاری نمایند.

شرکت دردا بنوسازه:

شرکت مهندسی قنابله:
قرارد خدمات فنی و مهندسی و همکاری مشترک

قرارد حاکم در تاريخ ۱۳۹۶/۱/۱۱ بین "شرکت مهندسی ایتوک ایران"، به آدرس تهران- خیابان ولیعصر خواجوی غربی- پلاک ۹۲ به نمایندگی آقای محمد حسین ترابی سارچالو، که منعیت به اختصار "ایتوک" نامیده میشود از یکطرف و شرکت دراپترینه به آدرس: خیابان خالد استامبولی - خیابان ۲۱ - پلاک ۱۳ - واحد ۲۱ به نمایندگی آقای كامل بیری که منعیت به اختصار "همکار" نامیده میشود از طرف دیگر و بر اساس پندهای زیر منعقد می‌گردد:

نظر به اینکه شرکت مهندسی ایتوک ایران به عنوان پیمانکار عمومی در نظر دارید از بین شرکت‌ها، اشخاص حقوقی و حقوقی فعال در زمینه‌های اجرایی به صورت پیمانکار دست دوم در اجرای پروژه‌های خود استفاده نماید:

۱- اینگونه در اجرای پروژه‌های فعال و آنی خود از ثوابت‌ها و نظارت‌های فنی مهندسی و مشاوره‌ای که همکار در زمینه‌های وابسته به فنی، فنی- مهندسی و توسعه تخصصی (بیش از تجهیزات بیولوژیک و نیروگاه‌های تولید برق) در چهارچوب مناسب و هزینه‌های قابل رقابت استفاده خواهد نمود.

۲- در صورت ارجاع کار از طرف شرکت ایتوک، همکار، فعالیت‌های موضوع قرارداد بشرح بند یک را با اولویت و با کیفیت مطلوب و در زمان مقرر به انجام خواهد رساند.

۳- در صورت فروختن کار به دیگر شرکت‌ها بر اساس قرارداد و هر مرحله با هر گونه خاصی که هر کدام خطے پذیر بوده باشد مشخص و تشریح می‌گردد. این عملاً به کارگران و مهندسان مشخص و بر اساس قابل رقابت استفاده خواهد نمود.

۴- همکار بدون کسب اجازه کننده شرکت ایتوک به قرارداد مشترک رتیبه را بر پروژه‌های مشترک شما ممکن این قرارداد، ندارد.

۵- همکار متعهد می‌شود که اطلاعات و مدارک رسیده از طرف ایتوک را کامل‌الخصوص به نموده و از افسار و یا دسترسی اشخاص ثالث به آنها جلوگیری نماید.

۶- حق انجام خدمات کارشناسی اساس یافته قبلاً متفاوت و تفاوتوا خواهد شد.

۷- همکار می‌تواند در مناقصات مربوطه (مندرج در بند یک) به تشخیص ایتوک به عنوان پیمانکار دوم مهندسی، نامی کالا و اجرا، راه ادامه و تکمیل و یا به عنوان همکار یکی از شرکت‌های کم مجموعه ایتوک معرفی خواهد شد. لذا هرگونه همکاری لازم در جهت
تهیه روزومه و نمایندگان شرکت خود و مجموعه این‌توق را به منظور بررسی و فیلودن و نهایتاً بر نهایت شدن در مناقصات مجموعه این‌توق و با خود همکار به عمل خواهد آورد. همکار همواره حالت انحصاری را در مناقصات مربوط به این‌توق (با زمینه های مندرج در بند یک) را حفظ خواهد کرد، مگر در مواردی که این‌توق یا مجموعه این‌توق عدم تمایل خود به شرکت در آن مناقصه را اعلام نماید.

8- حق الزحمه همکار بصورت ماهانه و بر اساس گزارش کتبی ارائه شده به این‌توق و تاییده کتبی معاونت مهندسی و فناوری با نماینده معرفی شده از طرف شرکت این‌توق و بر اساس قراردادهای مربوط به حساب همکار پرداخت خواهد شد.

9- این قرارداد از زمان اتفاق می‌باشد، به مدت ۲ سال معتبر می‌باشد.

10- این قرارداد در تاریخ ۱/۱۴۸۱ در تهران در ۱۰ یکن و در دو نسخه که هر دو حکم واحد را دارند به امضای رسیده و از هر جهت تابع قوانین کشور ایران می‌باشد.

از طرف شرکت این‌توق ایران
محمد حسن ترابی ساربجاو
مدیرعامل
امضاء:

از طرف شرکت دریاترسازه
کامال بیگ
مدیرعامل
امضاء: [Signature]
Co-operation Agreement

This Cooperation Agreement (hereinafter referred to as the ("AGREEMENT") is made as of 12, Nov. 2007, by and between:

IRAN ITOK Engineering Company (hereinafter referred to as "ITOK) registered under the laws of Iran having its Registered Office located at No. 92, Venak Avenue, Tehran 19918-16683, IRAN, represented by Mr. M.H. Torabi, Managing Director on one part

And

TEMPLE Consultancy Limited, hereinafter referred to as (TEMPLE) under the laws of England. And it's Registered Office at 15 Elgood Ave, Northwood Middlesex HA6 3QL by Mr. H. SAHABI, Iran- Executive Manager

Each of TEMPLE and ITOK is hereinafter referred to as a "Party," and, collectively, the "Parties".

WHEREAS, ITOK with its strong technologically, operationally, and financially capabilities. Wishes to expand its downstream activities in Iran by participation in the Tender called for EPC contract for Hormuz oil refinery (Project).

WHEREAS, TEMPLE, an International Engineering Company focused in Oil and Gas & Petrochemical Industry, with great amount of technical capabilities, endeavors to grow its business activities in Iran;

WHEREAS, TEMPLE has the technology, skills and related resources to cooperate with ITOK in joint implementation of Basic & Detail Engineering, Procurement Services & Construction Management of Hormuz Refinery in Bandar Abbas, Iran.

NOW THEREFORE, in consideration of the foregoing the Parties agree the following principle terms and conditions:

[Signatures]

Page 1 of 5
1. SCOPE OF COOPERATION

A. The scope of cooperation of the Parties is to form a Consortium to bid and execute Hormuz oil refinery in case of winning the tender under a separate Contract with mutually agreed terms and condition to include type of tasks to be undertaken by each party due to huge size of this project other Iranian or foreign partners can be added to this consortium by ITOK if necessary.

B. If the tender is won by this consortium TEMPLE will be responsible for Basic and Detail Design the Hormuz Refinery.

C. Preparing Technical and Commercial proposal to be submitted to National Iranian Oil Engineering & Construction Company (NIOEC) in the form of EPC contract award.

D. The Parties agree that the negotiations and implementation of the Project will be done on a joint effort with leadership of ITOK.

E. Based on this agreement, ITOK can use this cooperation agreement in future project of National Iranian Oil Engineering & Construction Company (NIOEC), which will be identified and introduced to TEMPLE by ITOK.

F. The Partner's share of supplies and services and contract responsibilities for this project will be agreed in detail contract agreement.

G. All the required guarantees will be provided by the parties in proportion to their shares. if all the guarantees provided by one party, the other party will pay his share of the expenses.

2. LIMITATION OF COOPERATION

Notwithstanding the other provisions of this Agreement, the Parties agree that this cooperation is subject to the following condition: The prevailing laws and regulations of the respective countries.

3. CONFIDENTIALITY

The Parties agree that all legal, technical, commercial and other data and information exchanged, acquired, or disclosed pursuant to this Agreement shall be held confidential and shall not be disclosed by any Party to third parties without the written consent of the other
Party. Such consent shall not be required if said information is required to be disclosed to National Iranian Oil Refining and Distribution Company (NIORDC) and/or for any legal purpose.

- to the extent that they have a clear need to know in order to evaluate the project, including employees, officers and directors, Affiliate (as defined below) of such Party and any consultant or agent retained by such Party or its Affiliated company; and

- Under applicable law, stock exchange regulations or by a governmental order, decree, regulation or rule, provided, however, that the disclosing Party shall make all reasonable efforts to give prompt written notice to the other Party prior to such disclosure.

4. COSTS

A. Internal Costs
Each of the Parties shall bear all internal costs and expenses incurred by it or by any of its Affiliates in connection with the performance of this Co-operation Agreement.

B. External/Third Party Costs
Each of the Parties shall bear all external/third party costs and expenses incurred by it or by any of its Affiliates in connection with the performance of this Agreement, unless the sharing of such external/third party costs have been pre-approved in writing by the Parties.

5. VALIDITY AND TERMINATION

This agreement shall remain in force for a period of 5 (five) years from the signing date but then may be extended by mutual consent.

6. EXCLUSIVITY

The TEMPLE agree to cooperate exclusively with ITOK for the Hormuz Oil Refinery Project. Therefore, TEMPLE alone or in cooperation with other third party shall compete for the award of the Project directly or indirectly through its holding company, subsidiaries and/or any person, partner firm or company in any way associated with or related to TEMPLE.
7. NOTICES

All legal notices and communications relating to this Co-operation Agreement shall be in English and in writing and shall be delivered by hand, or sent by facsimile, air courier or registered mail to the Parties at the following addresses or facsimile numbers:

If to IRAN ITOK:
Address: No. 92, Vanak Avenue, Tehran 19918-16683, IRAN
Attention: M.H TORABI Managing Director
Tel: +98 21 8806 6255
Fax: +981 21 88067729
E-mail: torabi@itokgroup.com

If to TEMPLE
Address: 15 Elgood Ave, Northwood Middlesex HA6 3QL
Attention: Mr. Keith Wait, Managing Director
Tel: +44 1923822844  Tehran Office: +98 2188732765-6 Mr. H.SAHABI,
Fax: +44 1923842292

A Party may change its address. Any such change will be notified as soon as it is known.

8. APPLICABLE LAW

This Agreement shall be governed by, construed and enforced in accordance with the laws of the International Chamber of Commerce (Vienna, Austria) without references to the rules of conflicts of laws.

9. SETTLEMENT OF DISPUTES

A. In the event that any dispute or difference arises between the Parties in connection with this Co-operation Agreement, all practicable efforts shall be made to resolve the matter amicably.

B. Any dispute or difference cannot be amicably resolved shall be referred to the arbitration, in accordance with its arbitration rules at the time, of the International
Chamber of Commerce in Vienna, Austria by three (3) arbitrators, of whom one shall be appointed by 8E1, another shall be appointed by ITOK, and the third shall be appointed by the first two (2) arbitrators. The award made by the arbitrators shall be final and binding upon the Parties and may be enforced in any court of competent jurisdiction. The arbitration shall be conducted in the English language.

10. ASSIGNMENT

This Agreement may not be assigned, unless assignment to a Party's Affiliate, by either Party to any third party without the prior written consent of the other Party, which consent may not be unreasonably withheld.

11. AMENDMENTS

This Agreement may not be altered, modified, amended or changed in any manner, except by a written agreement executed and delivered by the authorized representatives of the Parties.

12. EXECUTION

This Agreement is prepared in two (2) copies, each of which shall be deemed original, and all of which together shall constitute one and the same instrument.

TEMPLE CO.

Name: H. SAHABI
Title: Iran-Executive Manager
Signature:

IRAN ITOK CO.

Name: M.H TORABI
Title: Managing Director
Signature:
توافق نامه مقدماتی مشارکت

با توجه به اینکه شرکت مهندسی والا انرژی به شماره ثبت ۲۴۲۷۸۹۶ و به آدرس: تهران، بلوار افراصی‌پور از نقاط مبنا مادی، خیابان سرو، پلاک ۲، طبقه ۲، واحد ۸، به نمایندگی آقای دکتر سلیمان شکارچی، شرکت دریا پترو سازه به شماره ثبت ۲۰۷۸۹۱ و به آدرس تهران، میدان آرزوانتین، خیابان ۲۱، پلاک ۱ و واحد ۳ به نمایندگی آقای مهندس کامل پیری و شرکت مهندسی مشارکتی دریا فرآیند به شماره ثبت ۲۵۳۹۱۲ و به آدرس تهران، انتهای خیابان شیخ بهایی، خیابان پیروزان، شماره ۴ به نمایندگی آقای مهندس ابراهیم علی‌پور (که از این پس شرکا، نامیده می‌شود) تفاهم دارد که به صورت مشترکی بیشتری برای ارزیابی خدمات مدیریت طرح پتروشیمی دماوند را در پاسخ به استعلام مورخ ۲۶/۱۲/۹۹ به ارسال نمایندگی و با توجه به اینکه در بیشترین مزیت‌های باید بطور مقدماتی اصول همکاری، حقوق و مستنداتی که مربوط به شخص مشترک شود لذا طرفین به شرح زیر توافق نمودند:

۱- شرکاء بر اساس این توافق نامه مقدماتی، مشارکت والا انرژی را تشكیل می‌دهند و در صورتیکه قرارداد به این مشارکت ابلاغ گردد، قراردادی با کارفرما جهت اجرا برپ روی متفقین می‌شود.

۲- بر اساس مفاد و شرایط این توافقنامه شرکاء مشترکاً و با همکاری یکدیگر، بیشته‌های برای پروژه مذکور به‌همراه، تکمیل و ارسال خواهند نمود که مفاد و شرایط آن با این توافق و اعضای آنها پرست.

۳- شرکاء، با نمایندگان آنها به هم و به‌وجه نابودی در هیچ‌کدام از بیشته‌های دیگری که در خصوص این مناقصه برای پروژه ارسال می‌شود، مشارکت داشته و با به نحوی در آن دخل داشته باشند.

۴- شرکاء، بدنی‌نظامی آقای مهندس کامل پیری از شرکت دریا پترو سازه را به عنوان مدیر تهیه پیشنهاد از طرف مشارکت انتخاب و معرفی می‌نمایند.

۵- مدیر تهیه بیشتری از جانبه به‌همراه از اعضای مشارکت برای انجام آمر و بیشتری بر اساس این توافقنامه صاحب اختیار است و در هر حال اقدامات لازم را با هم‌سازی و اطلاع اعضای مشارکت انجام خواهد داد.
6- هر یک از اعضای مشارکت برای انجام پروژه بر اساس مفاد و شرایط قرارداد، در مقابل کارفرما متقاضی، مشتری و منفرداً مسئول هستند.
7- در صورتی که پیشنهاد ارسالی مشارکت بهیرفته شود، حدود مستندی ها و سایر جزئیات بین اعضای مشارکت نهایی خواهد شد.
8- این توافق نامه اول به در هریک از تاریخ های زیر که زودتر واقع شود فیک خواهد شد:
الف) کارفرما از اجرای پروژه منصرف شود.
ب) قرارداد توسط کارفرما به غیر واگذار شود.
ج) اول تیرماه یک هزار و سیصد و نودماه
این توافقنامه از تاریخ 1392/9/17 پس از امضای نماینده‌گان اعضای مشارکت معتبر می‌باشد.

شرکت مهندسی والان انرژی
سليمان شکارچی

شرکت دربای بترو سازه
کمال پیری

شرکت برنا فرآیند
ابراهیم عبدی