



Shanul Farayand
Consulting Engineers

SHANUL FARAYAND Co. CONSULTING ENGINEERS

COMPANY PROFILE



Shanul Farayand
Consulting Engineers

Professional Services
توانایی های تخصصی

OIL, GAS
& PETROCHEMICAL
INDUSTRIES



مطالعات اقتصادی و امکانسنجی پروژه ها

مهندسی مقدماتی

مهندسی تفصیلی

مهندسی خرید

مدیریت پیمان

نظارت بر ساخت و نصب

بازرسی و تست کالا و تجهیزات

برنامه ریزی و کنترل پروژه

کنترل و تضمین کیفیت

پیش راه اندازی و راه اندازی

برآورد، کنترل هزینه و قراردادهای

راهبری و مدیریت پروژه

Feasibility Study

Basic Design & FEED

Detail Design

Procurement Services

Management Consultancy

Construction & Installation Supervision

Test & Inspection

Project Control & Planning

QA & QC

Pre-Commissioning, Commissioning & Start-Up

EPC Projects Management

Cost Control & Estimate

Contract & Claim Management

شانول فرآیند
مهندسين مشاور

انجمن شرکت های مهندسی و پیمانکاری نفت - گاز و پتروشیمی



تأسیس مهندسان مشاور ایران



عضویت در:

تهران، شهرک غرب، بلوار دریا، خیابان کلتا، خیابان نوحید ۵، پلاک ۳۱ - کدپستی ۱۴۶۶۹ ۸۴۵۴ - تلفن: ۸۸۵۸۱۲۰۰ (خط ویژه) - فکس: ۸۸۰۹۱۲۳۳

No. 118, Darya Blvd., Shahrake Gharb, Tehran, IRAN, 14669 46484

Tel: 88581200 - Fax: 88370598 - www.shanul.com - info@shanul.com

- Isomerization Units of Bandar Abbas Gas Condensate Refinery including detail design and procurement services
- Lavan gas wells No. 2 & 3 facilities & 19km gas pipeline to Reshadat & Salman plants including detail design, procurement services & project management
- GOHT & KHT Units of Bandar Abbas Gas Condensate Refinery including detail design & procurement services

Scope of services for above projects includes:

- **Detail design** in all disciplines (civil, structure, electrical, instrument & control, process, mechanical, piping, safety & HSE, telecom)
- **Procurement Services** including commercial & technical documents for equipment & bulk material, review of manufacturers / vendors proposals, commercial & technical evaluation of proposals, technical meetings with selected bidder / vendor, follow-up / expediting of manufacturing phases & all necessary technical clarifications with manufacturers / vendors, test & inspection

- واحدهای ایزومریزاسیون پالایشگاه میعانات گازی بندر عباس (سه واحد و ظرفیت هر واحد ۴۰ هزار بشکه) شامل طراحی تفصیلی و مهندسی خرید

- واحدهای GOHT و KHT پالایشگاه میعانات گازی بندر عباس - شامل طراحی تفصیلی و مهندسی خرید

- تأسیسات سرچاهی چاههای گاز شماره ۲ و ۳ لاون و ۱۹ کیلومتر خط "۸" انتقال گاز به نیروگاه ها و تأسیسات رشادت و سلمان - شامل طراحی تفصیلی ، مهندسی خرید و مدیریت پروژه

خدمات ارائه شده در هر یک از پروژه های فوق عبارتست از:

- طراحی تفصیلی شامل بخشهای سیویل، ساختمان، سازه، برق، کنترل و ابزار دقیق، فرآیند، مکانیک (ثابت - دوار)، لوله کشی صنعتی، محیط زیست، ایمنی، مخابرات
- مهندسی خرید شامل تهیه مدارک بازرگانی و فنی خرید کالا و اقلام فله صنعتی، بررسی پیشنهادها سازندگان، مقایسه فنی پیشنهادها، برگزاری جلسات فنی با سازندگان منتخب، پیگیری مراحل ساخت و انجام کلیه مکاتبات فنی لازم در طول ساخت و تست و تحویل کالا

صنایع بالادستی نفت و گاز
پالایشگاههای نفت و میعانات گازی
پالایشگاههای گاز
کارخانجات پتروشیمی
تأسیسات فراساحل
تأسیسات افزایش فشار و تزریق گاز به میدان نفت
واحدهای بهره برداری نفت
واحدهای نمک زدایی نفت
واحدهای فرآورش گاز
تأسیسات مایع سازی گاز
کارخانجات صنعتی و شیمیایی
تولید و انتقال برق
کارخانجات کاغذ سازی
صنایع دارویی و بیوتکنولوژی
صنایع معدنی
معماری، طراحی و احداث ساختمان

Upstream Oil & Gas
Petroleum / Condensate Refineries
Gas Refineries
Petrochemical Plants
Offshore Facilities
Gas Compression & Injection Facilities
Oil Production Units
Oil Desalting Units
Gas Treatment Plants
LNG & GTL Plants
Chemical / Industrial Plants
Power Generation & Distribution
Pulp & Paper Plants
Pharmaceutical & Biotech. Industries
Mine Industries
Architecture & Building Construction





- Licensed/Certificated by Design & Consultancy for the following Fields
 - Oil & gas refineries & Petrochemical Plants
 - Oil & gas Pipelines
- Membership in Iranian Society of Consulting Engineers
- Membership in Association of Petroleum Industry Engineering & Consulting Companies





Shanul Farayand
Consulting Engineers

Certificate/License Of Consulting Services

- Grade 1 in Oil and Gas industrial projects, Petrochemicals and Refineries
- Grade 3 in Pipeline projects

مشخصات گواهینامه

نام شرکت : شاتول فرایند	مدیر عامل : محمد مخدراتی	تلفن : ۰۲۱-۸۸۸۸۱۲۰۰
شناسه ملی : ۱۰۱۰۳۶۹۳۱۲۰	شناسه مالیاتی : ۴۱۱۳۴۵۹۳۸۱۸	شماره ثبت : ۳۹۹۸۳۶
نوع گواهینامه : مشاور	محل صدور : امور نظام اجرایی طرح ها	صادر کننده : غلامرضا شافعی
وضعیت گواهینامه : معبر	تاریخ صدور : ۱۳۹۱/۰۳/۰۶	تاریخ انقضاء : ۱۳۹۸/۰۳/۰۱
نشانی : تهران - شهرک غرب - پلوار دریا - خیابان گلها - خیابان توحید ۵ - پلاک ۳۱ - کد پستی ۱۴۶۶۹۸۲۸۵۴	توضیحات گواهینامه :	

زمینه فعالیت و ظرفیت کاری

زمینه فعالیت	پایه	تعداد کار مجاز	ظرفیت مجاز (میلیون ریال)	تعداد کار انجام شده	تعداد کار آزاد	امتیاز قراردادهای تایید شده
خطوط انتقال نفت و گاز	۳	۴	۱۲۳۶۰	۰	۴	۰
واحدهای پالایشگاه نفت، گاز و صنایع پتروشیمی	۱	۶	۱۹۷۰۴۰	۵	۱	۷۱۷



شماره : ۳۱۱۸۲
تاریخ : ۱۳۹۴/۰۳/۰۶

ریاست جمهوری
سازمان مدیریت و برنامه ریزی کشور

گواهینامه صلاحیت خدمات مشاوره

جناب آقای محمد مخدراتی
مدیرعامل محترم شرکت شاتول فرایند
شماره ثبت: ۳۲۹۸۳۶

با استناد به مصوبه شماره ۲۰۶۳۷/ت/۲۸۴۳۷ هـ مورخ ۱۳۸۳/۴/۲۳ هیأت محترم وزیران و با توجه به احراز شرایط لازم و تأیید صلاحیت آن شرکت در سامانه جامع تشخیص صلاحیت عوامل نظام فنی اجرایی، به این وسیله صلاحیت آن شرکت برای انجام خدمات مشاوره از تاریخ صدور این گواهینامه تا پایان دوره ارزشیابی و حداکثر تا تاریخ ۱۳۹۸/۰۳/۰۱ اعلام می گردد.

شناسه ملی شرکت : ۱۰۱۰۳۶۹۳۱۲۰

خواهشمند است برای مشاهده جزئیات گواهینامه صادره به پایگاه

<http://sajar.mporg.ir> مراجعه فرمائید.

رعایت قانون برگزاری مناقصات، موضوع ابلاغیه شماره ۱۳۰۸۹۰ مورخ ۱۳۸۳/۱۱/۱۷ رئیس مجلس شورای اسلامی، این نامه های اجرایی مربوطه و ظرفیت کاری مجاز در زمان ارجاع کار توسط آن شرکت ضروری است.

غلامرضا شافعی

معاون فنی و توسعه امور زیربنایی

- هرگونه تغییر در ارکان و سهام شرکت و اطلاعات امتیازآوران (مدیرعامل، هیأت مدیره و کارکنان امتیازآور)، باید حداکثر ظرف مدت سه ماه در سامانه ساجات (<http://sajat.mporg.ir>) ثبت و ارسال شود.
- هر قرارداد جدید حداکثر ظرف مدت سه ماه پس از انعقاد قرارداد و صورت وضعیت های جدید پس از تأیید کارفرما باید در سامانه ساجات ثبت شود، تا امتیاز آنها هنگام تشخیص صلاحیت دوره بعد و آزادسازی ظرفیت منظور شود.
- در صورت مغایرت مطالب این گواهینامه با اطلاعات موجود در پایگاه <http://sajar.mporg.ir>، اطلاعات پایگاه اصالت دارد.

به مندرجات پشت صفحه گواهینامه توجه فرمایید.

شماره: ۲۸۳۴۰۴



Shanul Farayand
Consulting Engineers

Membership of Iranian Society of Consulting Engineers



جامعه مهندسان مشاور ایران
Iranian Society of Consulting Engineers



کواپنامه عضویت

Certificate Of Membership

نام شرکت : Company Name:
شانول فرآیند Shanul Farayand

تاریخ تأسیس : Date of Establishment:
۸۷/۰۶/۱۱ 2008

تاریخ عضویت : Date of Membership:
۸۸/۰۹/۰۱ 2009

شماره عضویت : Registration Number:
۲۹۸۸ 2988

عضو گروه های تخصصی : Membership Groups :
خطوط انتقال نفت و گاز Oil and Gas Transmission

Chairman

رئیس شورای مدیریت



Signature of the Chairman of the Board of Management





Shanul Farayand
Consulting Engineers

Certificate / License of Membership in APEC



**Association of Petroleum Industry
Engineering and Construction Companies**

Registered at The Iran Chamber of Commerce, Industries - Mines & Agriculture : No. : 320 Dated: May. 04, 2012
Registered at The Ministry of Labor and Social Affairs : No. : 32-3/2-216 Dated: Dec. 11, 2000

Tehran - Iran

MEMBERSHIP CERTIFICATE

Shanul Farayand Consulting Engineering Co.

Registration No. : 329836 Dated : 2008- Tehran

Membership No. : 88174 **Issued on :** March 2017

Member Since : August. 2009 **Valid up to :** March 2018

Chairman: Behzad Hazrati 

 **Treasurer:** Ali Akbar Adib 



Shanul Farayand
Consulting Engineers

ISO Certificates



General Surveillance Association

*This certificate verifies that GSA has assessed and
Registered the Management System of:*

Shanul Farayand Consulting Engineers Co.
Tehran, Iran

To the International Standard

ISO 14001:2004

The Scope of the Management System is applicable to:

*Engineering and Design, Procurement, Construction, Installation,
Erection, Construction Management & Supervision, Field Engineering,
Management Consultancy of Projects in Oil, Gas-Petrochemical,
Energy and Related Industries*

Date of Issue:

June 20, 2017

Expiration Date:

June 20, 2022

Initial Certification: 2011

Authorizing Signature:

Certificate No. 99811467

Verification via www.gsacert.com

*This Certificate has been issued under the accreditation of:
ASG Registration No. US489132947*



General Surveillance Association

*This certificate verifies that GSA has assessed and
Registered the Management System of:*

Shanul Farayand Consulting Engineers Co.
Tehran, Iran

To the International Standard

OHSAS 18001:2007

The Scope of the Management System is applicable to:

*Engineering and Design, Procurement, Construction, Installation,
Erection, Construction Management & Supervision, Field Engineering,
Management Consultancy of Projects in Oil, Gas-Petrochemical,
Energy and Related Industries*

Date of Issue:

June 20, 2017

Expiration Date:

June 20, 2022

Initial Certification: 2011

Authorizing Signature:

Certificate No. 99811469

Verification via www.gsacert.com

*This Certificate has been issued under the accreditation of:
ASG Registration No. US489132949*





Shanul Farayand
Consulting Engineers

ISO Certificates



General Surveillance Association

*This certificate verifies that GSA has assessed and
Registered the Management System of:*

Shanul Farayand Consulting Engineers Co.
Tehran, Iran

To the International Standard

ISO 9001:2008

The Scope of the Management System is applicable to:

*Engineering and Design, Procurement, Construction, Installation,
Erection, Construction Management & Supervision, Field Engineering,
Management Consultancy of Projects in Oil, Gas-Petrochemical,
Energy and Related Industries*

Date of Issue:

June 21, 2017

Expiration Date:

June 20, 2022

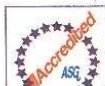
Initial Certification: 2011

Authorizing Signature:

Certificate No. 99811465

Verification via www.gsacert.com

This Certificate has been issued under the accreditation of:
ASQ Registration No. US489132945



General Surveillance Association

*This certificate verifies that GSA has assessed and
Registered the Management System of:*

Shanul Farayand Consulting Engineers Co.
Tehran, Iran

To the International Standard

ISO/TS 29001:2010

The Scope of the Management System is applicable to:

*Engineering and Design, Procurement, Construction, Installation,
Erection, Construction Management & Supervision, Field Engineering,
Management Consultancy of Projects in Oil, Gas Petrochemical,
Energy and Related Industries*

Date of Issue:

June 20, 2017

Expiration Date:

June 20, 2022

Initial Certification: 2011

Authorizing Signature:

Certificate No. 99811463

Verification via www.gsacert.com

This Certificate has been issued under the accreditation of:
ASQ Registration No. US489132943





Shanul Farayand
Consulting Engineers

ISO Certificates



GIC Regional Office

This is to certify that

Shanul Farayand Consulting Engineers Co.
Iran

Has been approved as a

TTAIN Member

In the following activities:

Engineering and Design, Procurement, Construction, Installation, Erection,
Construction Management & Supervision, Field Engineering, Management
Consultancy of Projects in Oil, Gas Petrochemical, Energy and Related Industries

Under the following Membership Number:

1109 0074 0093 1537

Authorizing Signature:

Date of Issue: 21 May 2017

Date of Expiry: 20 May 2020

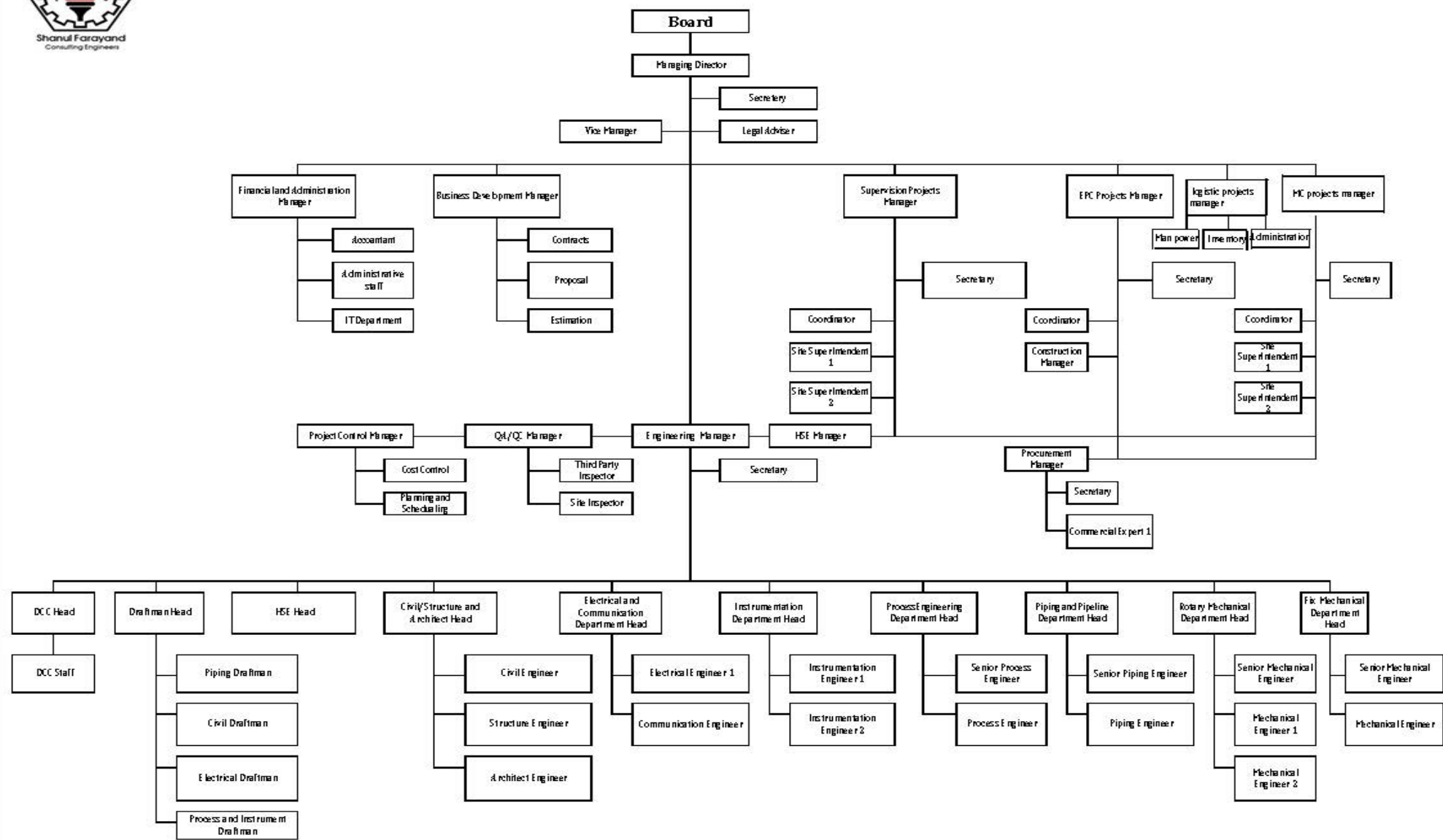
Initial Membership 21 May 2017

Top Ten Award International Network was established to recognize outstanding individuals, groups, Companies, Organizations representing the best in the public works profession. TTAIN has been registered under the Ontario Business Program (Reg. No. 227954629). Top Ten Award International ceremony will be held every year in a country for promotion of the quality of works, services and/or productions. Verification for approval of Membership can be done via above mentioned registered membership number in the following web link. For more information call the business information helpline or contact information below: Toronto and India: Canada at 1-888-745-6888 or 1-416-212-6888 or TTY 800-768-7095. Verification of Certificate via:

www.toptenaward.info

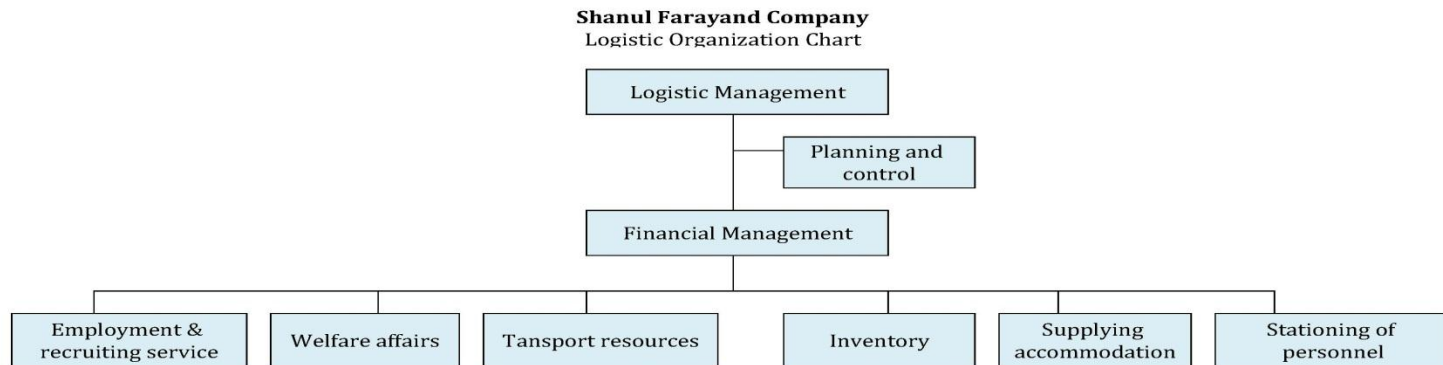


Company Organization Chart





Logistic Organization Chart





Shanul Farayand
Consulting Engineers

HUMAN RESOURCES

DEPARTMENT	NO.
General Management	6
Project Managers	5
QA & QC	2
Planning & Project Control	3
Project Coordinator	3
Piping	7
Process	4
Civil & Structure	7
Instrumentation & Control	5
Safety	2
Mechanical (Fix , Rotary , Package)	7
Electrical/Telecommunication	4
Drafting	7
IT	2
Accounting/Administration	5
Construction Site Services	35
Total	104



Shanul Farayand
Consulting Engineers

ENGINEERING SOFTWARE

	FUNCTION	DESCRIPTION
•	DOCUMENT CONTROL SOFTWARE	
-	HUMMINGBIRD	Document management software
-	POUPACK	Document management software
•	PROCESS DEPT.	
-	PROII	Process plants simulation
-	HYSIS	Process plants simulation
-	ASPEN BJAC	Heat exchangers & air coolers thermal/mechanical design
-	HEXTRAN	Heat exchangers & air coolers thermal design
-	PIPE PHASE	Process piping system design
-	FLARENET	Flare stack design
-	PIPENET	Process piping system design
-	FLOWMASTER	Fluid flow software
-	HTFS	Heat exchanger simulation and design
-	HTRI	Heat exchanger, thermal design
-	PHAST	Process hazard analysis
•	INSTRUMENT DEPT.	
-	CONVAL	Design/control valve, safety valves, line size, orifice plate, pump sizing
-	FLOWEL	Flow element sizing
-	FISHER	Control valve sizing
-	MASONEILAN	Control valve sizing
-	CROSBY	Safety valve sizing
-	FARRIS	Safety valve sizing
-	SAFTY-SIZE	Tyco valves & controls pressure relief valve sizing program
-	Instrucalc	Control valve sizing, Flow Element Sizing, Safety valve sizing
-	INTOOLS	Instrument Calculations
-	Val SpeQ	Control Valve Calculation



Shanul Farayand
Consulting Engineers

ENGINEERING SOFTWARE

•	MECHANICAL DEPT.	
-	ASPEN BJAC	Heat exchangers thermal/mechanical design
-	PVELITE	Pressure vessel mechanical design
-	TANK	Storage tank design
-	ANSYS	Finite element analysis/design
-	NOZZLE PRO	Finite element analysis/design
-	FLUENT	Computational fluid dynamics software
-	SOLIDWORK	3D mechanical design and 3D CAD software
-	COMPRESS	Pipe stress analysis software
-	STACKDES	Stack/flare design
•	CIVIL/STRUCTURAL DEPT.	
-	SACS	Structural analysis computer system
-	SAP 2000	Structural analysis program
-	STAAD	Integrated structural design system/structural analysis and design
-	ETABS	Extended 3 dimensional analysis of building systems
-	SAFE	Slab analysis and design by finite element method
-	FOUNDATION 3D	Analysis & design of foundations
•	PIPING DEPT.	
-	CASER II	Pipe stress analysis
-	PDMS (CADCENTRE)	Plant design management system-Plant 3D modeling
-	PEGS (CADCENTRE)	Plant engineering system
-	PDS (INTERGRAGH)	Plant design system
-	REVIEW REALITY	Plant design review
-	NAVIS WORKS	Plant design review
-	PUMA IV	Material handling software



Shanul Farayand
Consulting Engineers

ENGINEERING SOFTWARE

• ELECTRICAL DEPT.	
- DIALUX	Lighting Calculation
- CALCULUX	Lighting Calculation
- EDSA	Electrical distribution system analysis/power distribution network
- ETAP	Electrical power system analysis
- CYME-GRID	Electrical network analysis
- CYME-TCC	Electrical network analysis
- EPLAN	Electrical Network Drafting
- DIGSILENT	Electrical Network Analysis
- SAFT	Indoor & Outdoor Lighting Calculation
- Mazinoor Lighting	Indoor & Outdoor Lighting Calculation
• PLANNING & COST CONTROL	
- PRIMAVERA	Planning and project monitoring
- MS PROJECT	Planning and project monitoring
• DRAFTING	
- Autodesk AutoCAD	2D Drafting
- TEKLA/XSTEEL	3D modeling / 2D drafting software for Steel/Concrete Structures
- Bocad	3D modeling / 2D drafting software for Steel Structures
- Archicad	Architectural 3D Modeling and 2D drafting
• GENERAL	
- MS OFFICE	Microsoft Office

HARDWARE

COMPUTER		Qty.
HP proliant ML370 G4 Server Platform		4
Desktop Computer – Core i5 Processor, 512 GB HDD , 64 MB RAM		54
LAPTOP TOSHIBA		5
LAPTOP SONY		2
LAPTOP DELL		1
COPIER		Qty.
SHARP AR-5316/AR-5127/AR-M420U		3
PRINTER		Qty.
HP LASER COLOR CP2025n		3
HP LASERJET /A3 5100/5200		3
HP LASERJET/A4 1320/3005/2015		8
HP DESKJET 1220		3
PLOTTER		Qty.
HP DESIGNJET 130		1
SCANNER		Qty.
SCANJET 3970/G2710		5
PROJECTOR		Qty.
EPSON EB905		1
UPS		Qty.
UPS MERLIN GERIN 20 KVA		2
NETWORK HARDWARE		Qty.
D-link switch 1048		2
D-link switch 1024		2
D-link switch 1016		2
General Rack		4



Shanul Farayand
Consulting Engineers

CAPABILITIES IN DIFFERENT FIELDS

- **General Services in Oil , Gas and Petrochemical Project**
 - Feasibility Study
 - Proposal Preparation
 - Invitation To Tender-(ITT) & Evaluation of Tenders
- **Oil Projects Services**
 - Oil production facilities
 - Oil desalting plants
 - Oil pipelines & booster stations
 - Oil / condensate refineries
- **Gas Projects Services**
 - Gas compression & injection facilities
 - Gas transportation , gas pipelines & gas treatment facilities
 - Gas refineries, production facilities
- **Petrochemical Projects**
 - Small / large petrochemical plants (Olefins , Aromatics , HD/LDPE , PP , LAB , Methanol , Urea/Ammonia ,)
 - Utility plants & off sites
- **Other projects**
 - GTL/LNG plants
 - Offshore production facilities
 - Chemical / industrial plants



MAJOR REFERENCE PROJECTS

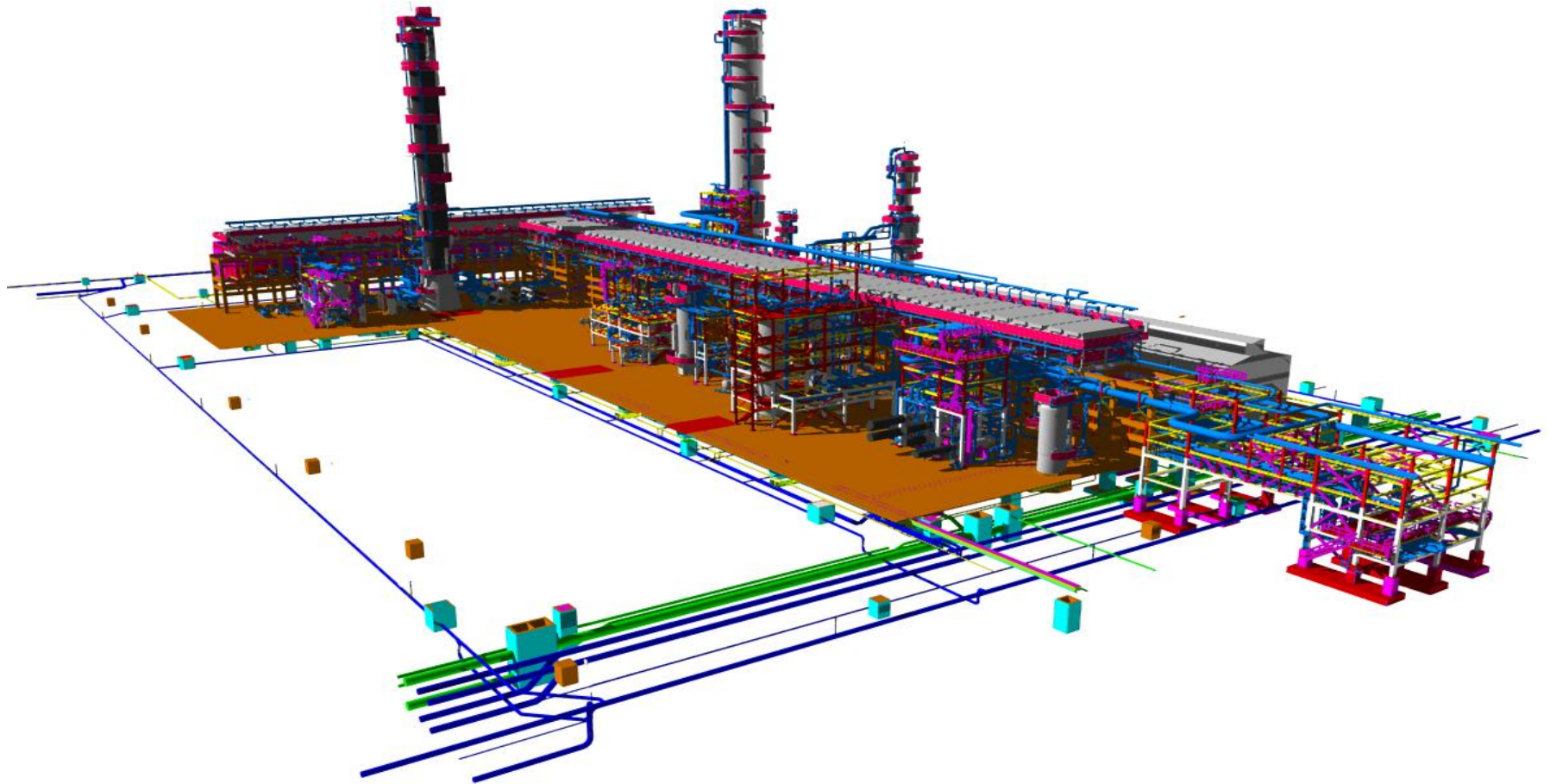
Isomerization Units of Bandar Abbas Gas Condensate Refinery

- **Scope of Work:**
 - Detail engineering, procurement services, project control, planning for 3 isomerization units.
- **Client:** Persian Gulf Star Oil Co.
- **Technology Provider:** UOP
- **Duration:** 60 Months
- **Project Progress:** 99.62 %
- **Major Activities:**
 - Detail design (process, civil , piping, mechanical, electrical , control, safety, telecom, Hazop, modeling ..)
 - Procurement engineering services , Review of Vendor documents.
 - Planning & project control.
 - Field engineering and Site supports
- **Project Key Figures :**
 - Piping(each train): 1850 Lines , 250000 Dia/Inch
 - Equipment(each train): 94 , including : 4 compressors,26 pumps,7 columns/reactors, 17 Vessels ,39 Exchanger/Cooler, ...
 - Steel Structure(each train): 19 No. , 1900 tons excluding piperack
 - Civil(each train): 15000 m3 concrete volume
 - Electrical /Instrument(each train): 8 MW , 3300 I/O's (including FF)



Shanul Farayand
Consulting Engineers

3D MODEL OF ISOMERIZATION UNIT





MAJOR REFERENCE PROJECTS

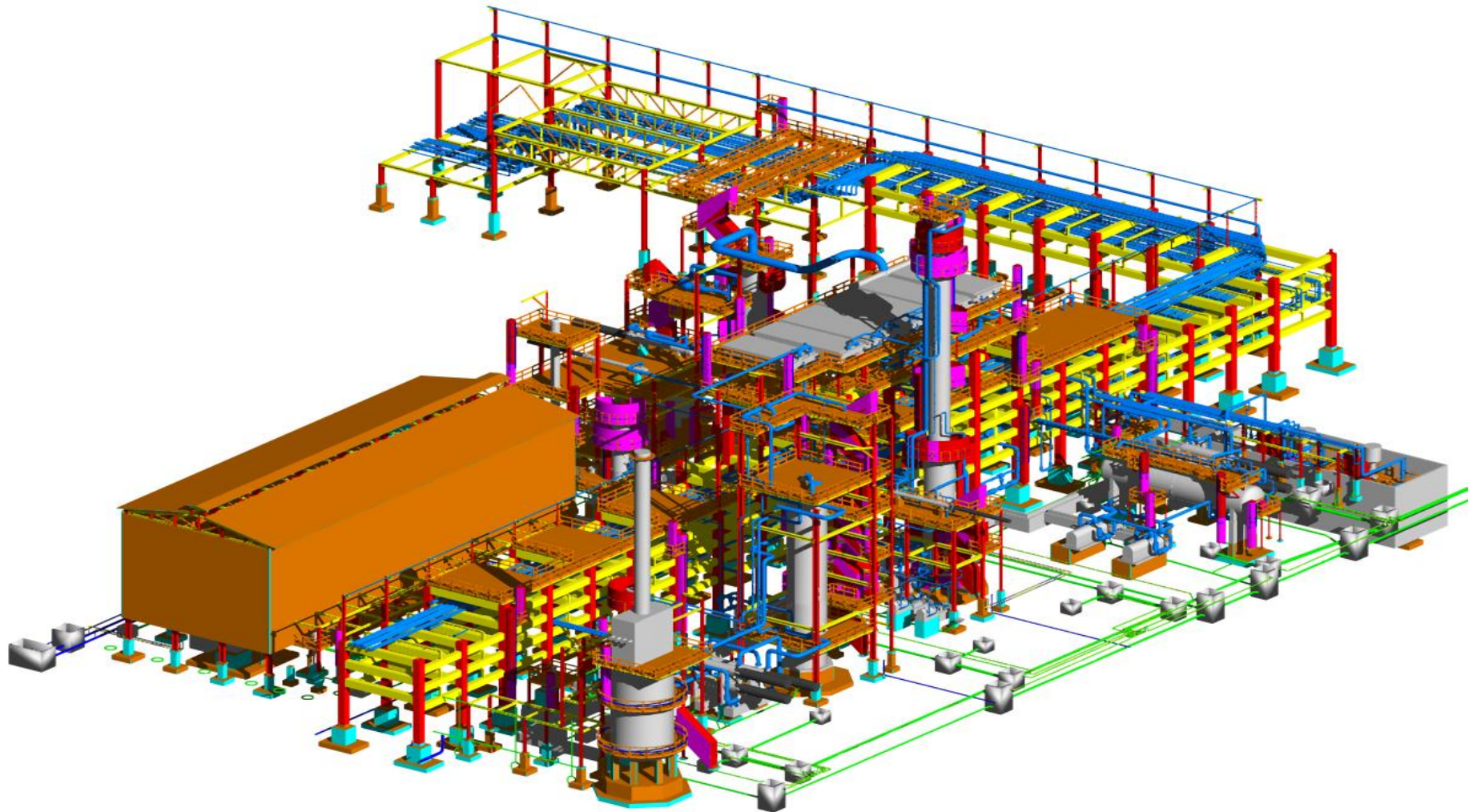
GOHT & KHT Units of Bandar Abbas Gas Condensate Refinery

- **Scope of Work:**
 - Detail engineering, procurement services, project control, planning for 3 GOHT (Gas oil Hydro Treating) & KHT(Kerosene Hydro Treating) Units
- **Client:** Persian Gulf Star Oil Co.
- **Duration:** 60 Months
- **Technology Provider:** Haldor Topsoe
- **Project Progress:** 99.51 %
- **Major Activities:**
 - Detail design (process, civil , piping, mechanical, electrical , control, safety, telecom, Hazop, modeling ..)
 - Procurement engineering services , Review of Vendor documents.
 - Planning & project control.
 - Field engineering and Site supports
- **Project Key Figures :**
 - Piping(each train): 995 Lines , 110000 Dia/Inch
 - Equipment(each train): 65, including : 3 compressors,24 pumps,4 columns/reactors, 15 Vessels,16 Exchanger/Cooler, 1Fired Heater , ...
 - Steel Structure(each train): 14 No. , 950 tons excluding piperack
 - Civil(each train): 6500 m3 concrete volume
 - Electrical /Instrument(each train): 3.6 MW , 2100 I/O's (including FF)



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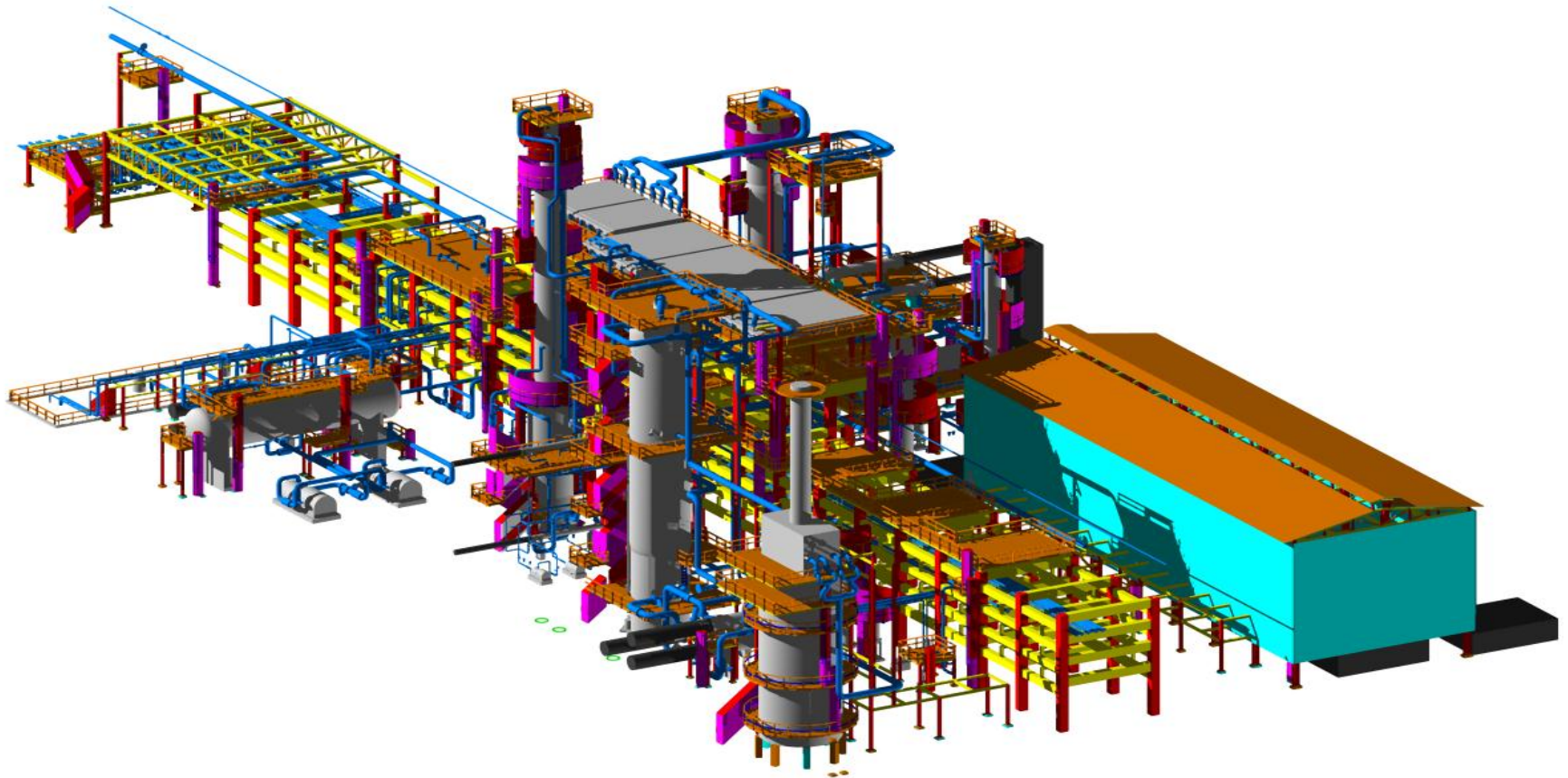
3D MODEL OF KEROSENE HYDROTREATER UNIT





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3D MODEL OF GAS OIL HYDROTREATER UNIT





MAJOR REFERENCE PROJECTS

Nargesi Gas Gathering, Compression & Injection Project

- **Scope of Work:**

- Gathering, compression, and injection of gas from Nargesi Production Unit, capacity of gas 19MMSCFD. The scope was detail engineering, procurement, construction & commissioning (EPC.)

- **Client:** National South Oil Fields Co.

- **Duration:** 30 Months

- **Project Progress:** completion.

- **Major Activities:**

- 2 sets of screw compressors+ 8 sets of reciprocating compressors to boost up gas pressure to 3000 psi (injection) .
- Compressor shelter, chemical injection, flares & burn pit, pig launcher / receivers
- Gas dehydration package.
- 8km, 6" pipeline to injection well(33MMSCFD).
- 37km over head power line (66kv) & related substations
- Telecommunication and safety systems
- Industrial buildings & facilities



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Nargessi GAS GATHERING, COMPRESSION & INJECTION PROJECT





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Nargessi GAS GATHERING, COMPRESSION & INJECTION PROJECT





MAJOR REFERENCE PROJECTS

Nargesi Oil Production Unit Capacity Increasing

- **Scope of Work:**
 - Detailed Design, Procurement, Construction (EPC) Oil production capacity increase from 15,000 BPD to 25,000 BPD
- **Client:** National South Oil Fields Co.
- **Duration:** 20 Months
- **Project Progress:** Completion
- **Major Activities:**
 - 10" oil pipeline (102km)
 - Dismantling of existing Pumps, installation of new high capacity pumps ,Renovation of instrumentation & Control system.



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NARGESSI OIL PRODUCTION UNIT OIL CAPACITY INCREASING





MAJOR REFERENCE PROJECTS

Lavan Gas Wells No.2&3 Facilities & Gas Pipeline

- **Scope of Work:**
 - Detailed Design, Procurement, Construction (EPC) of Lavan Gas Wells Facilities and 19km pipeline to Rashadat and Salman Plants
- **Client:** Iranian Offshore Oil Co.
- **Duration:** 12 Months
- **Project Progress:** Completion
- **Major Activities:**
 - Gas wellhead facilities, chemical injection packages & 2 No. gas conditioning packages
 - 8" gas pipeline (19km) and respective pig launcher / receivers ,3x Flares .
 - 19km over head power line (20kv)
 - 2xElectrical rooms, 3xControl rooms , Safety /utility facilities.



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Lavan Gas Wells No.2&3 Facilities & Gas Pipeline





MAJOR REFERENCE PROJECTS

Nafte Sefid oil field gas and oil system optimization & renewal project

- **Scope of Work:**

- Detail Engineering , procurement services for a new production unit ,25000 BBL/d oil & 30.4 MMSCF/d of gas. (EPC)

- **Client:** National Iranian South Oil Co.

- **Duration:** 30 Months

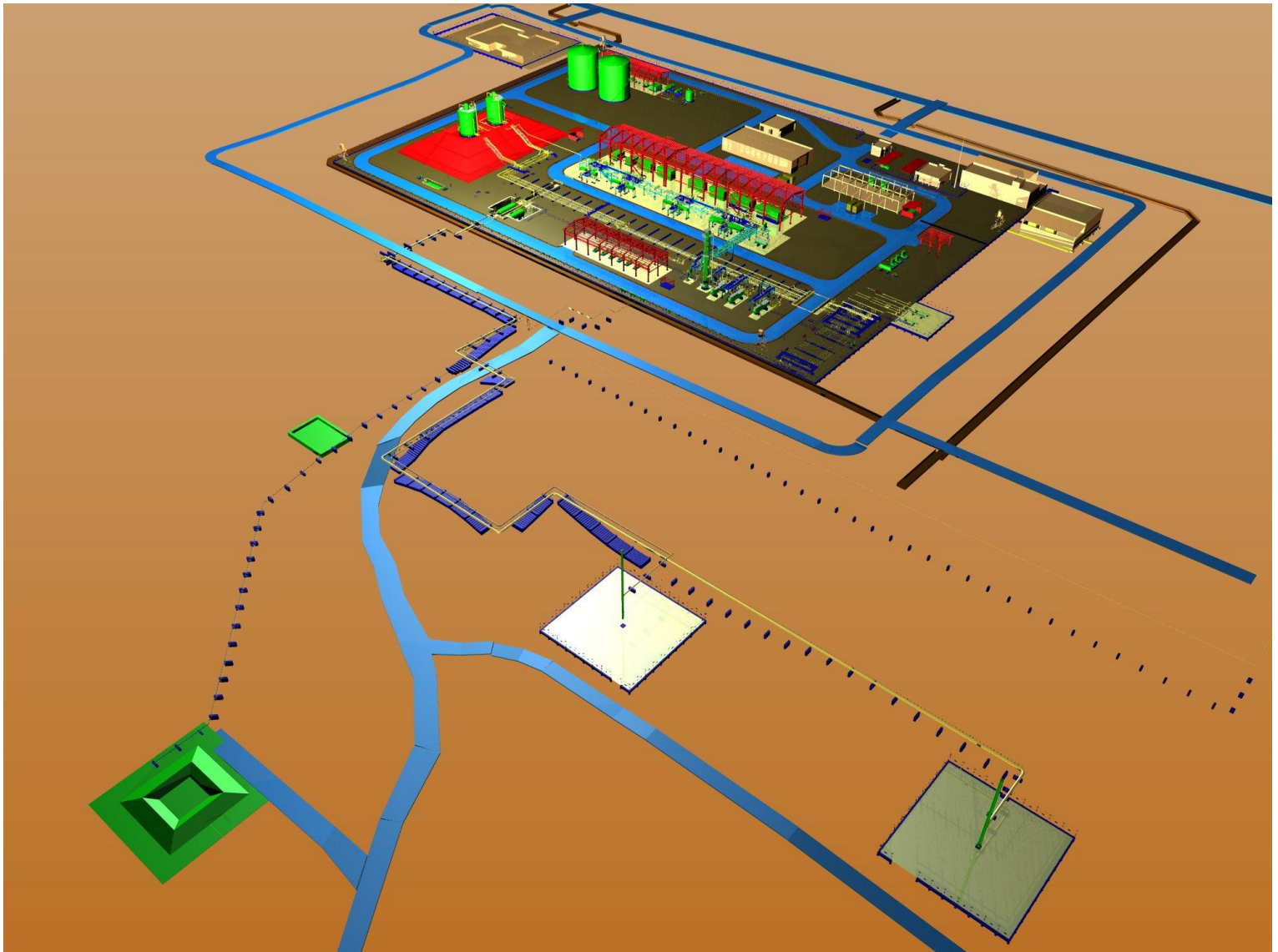
- **Major Activities:**

- Detail design (process, oil , gas, water separation, gas compression, oil transfer & boosting pumps, mechanical, civil, electrical, control, safety, telecom, Hazop, modeling..) gas compressors, oil pumps, chemical inj. packages, 40 Km. oil pipeline, 37 Km (60Kv) Overhead power line, pumps shelter, compressors shelter, air cooled gas heat exch. Oil/gas separators, stripper column, control bldng., electrical sub station & electrical room. Fire& safety devices, pipe lines & manifold, etc.
- Procurement engineering services ,vendor documents review.
- Planning & project control



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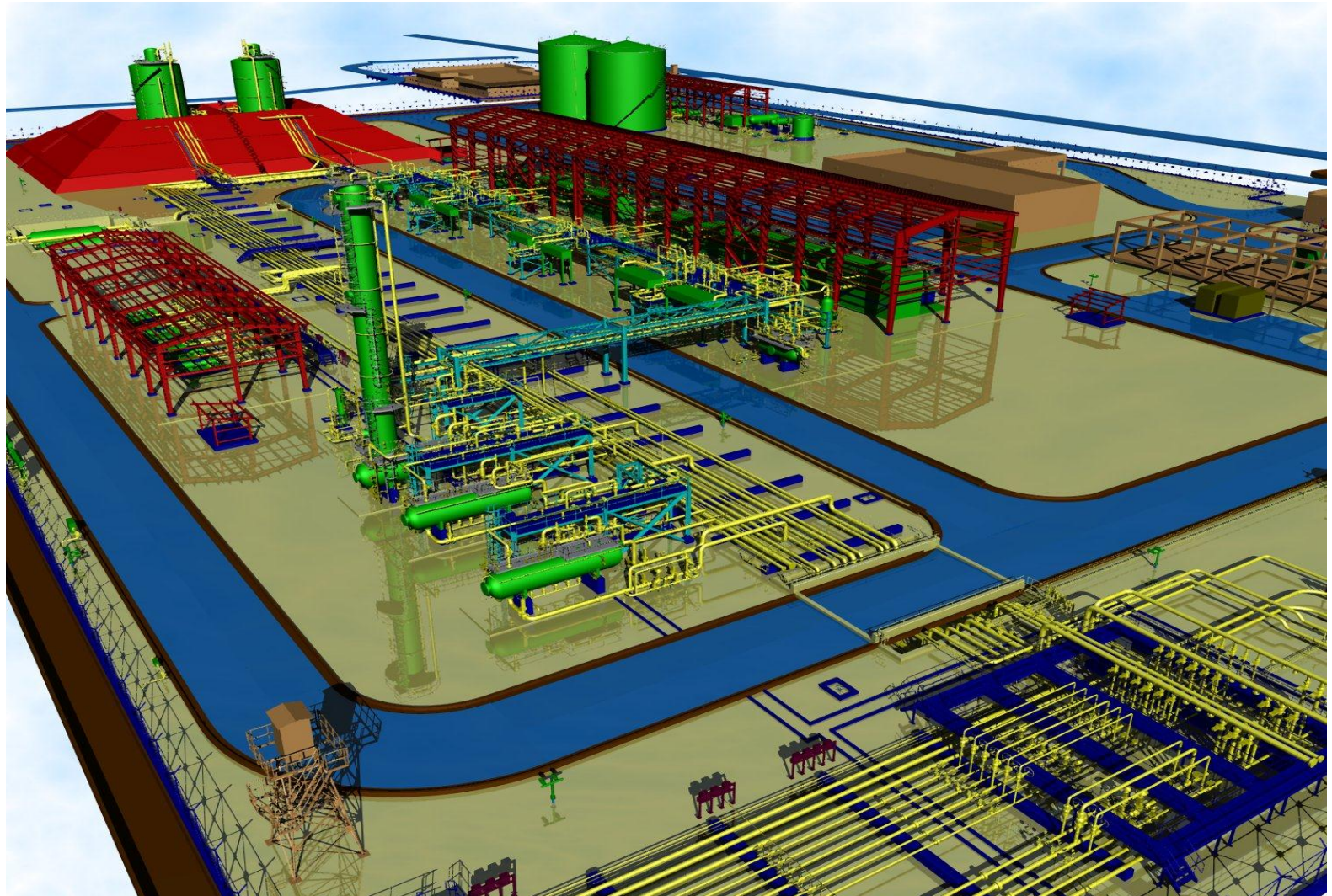
3D MODEL OF Naft-e Sefid





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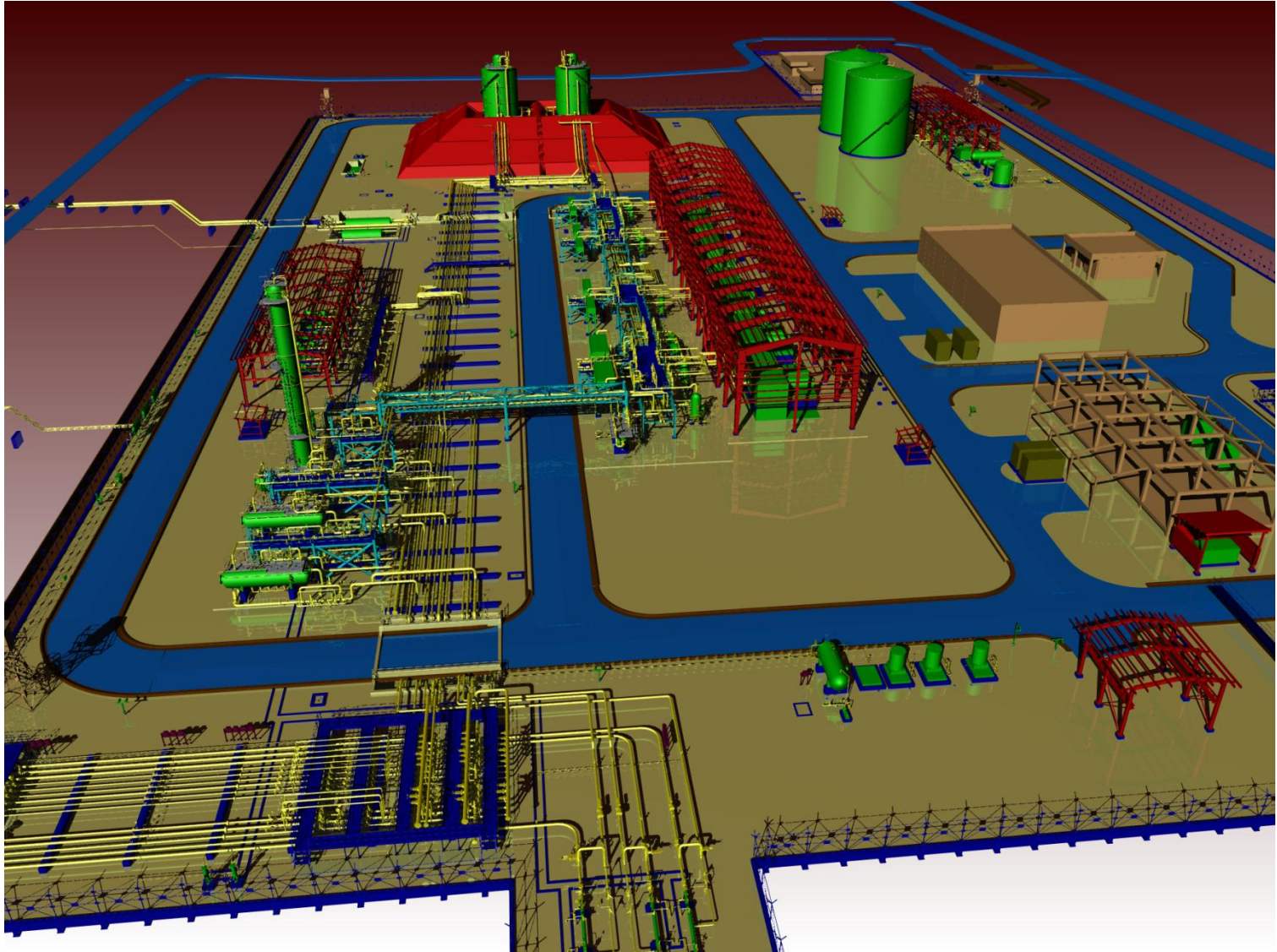
3D MODEL OF Naft-e Sefid





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3D MODEL OF Naft-e Sefid





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MAJOR REFERENCE PROJECTS

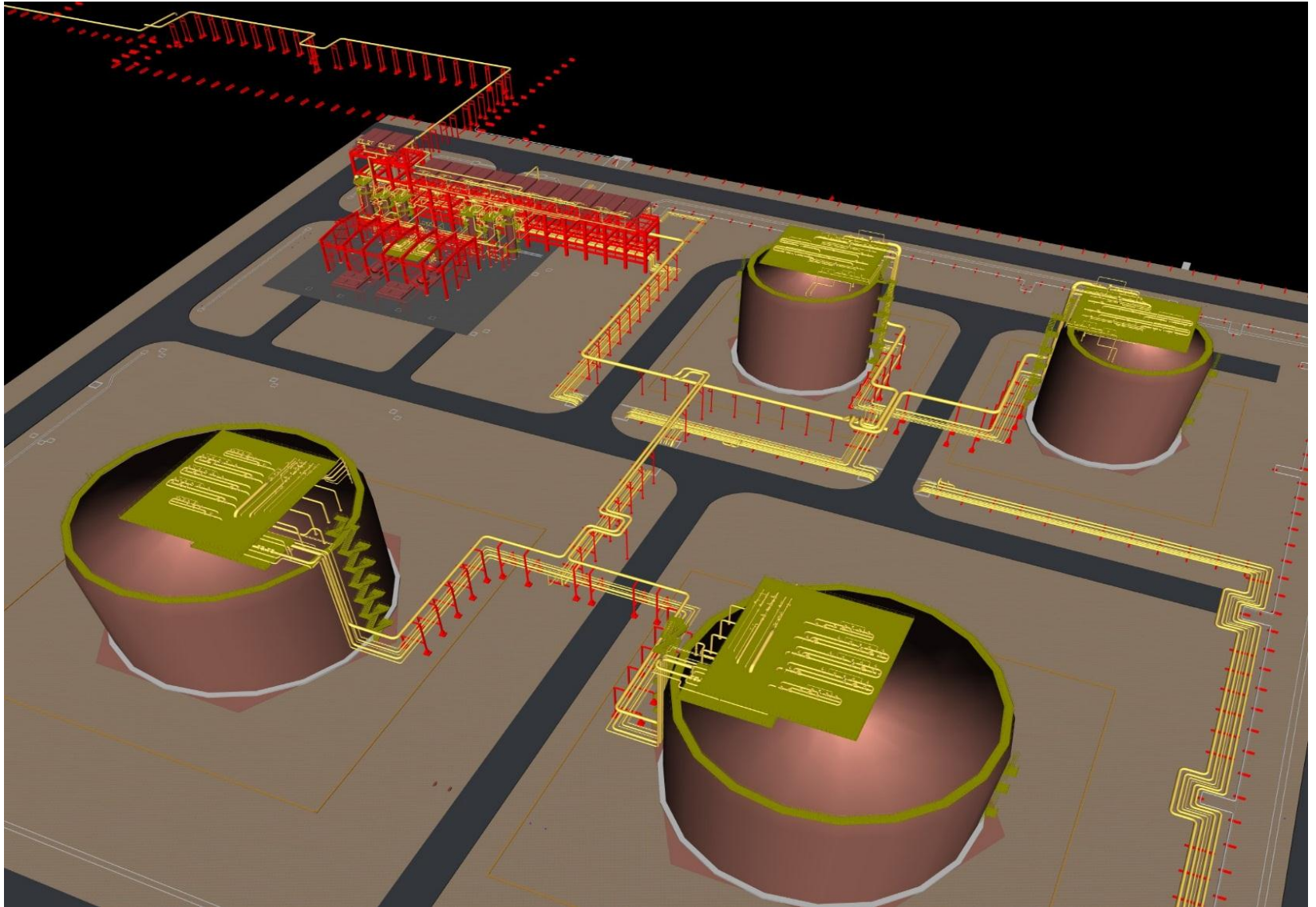
Engineering Services and Basic Design for LPG Refrigeration, Storage & Loading System

- **Scope of Work:**
 - Engineering Services and Basic Design for LPG Refrigeration, Storage & Loading System
- **Client:** Persian Gulf Star Oil Co.
- **Duration:** 6 Months
- **Technology Provider:** KT Tecnimont Italy
- **Project Progress:** 100 %
- **Major Activities:**
 - Engineering Services for Basic Design in all disciplines



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LPG Refrigeration, Storage & Loading System





MAJOR REFERENCE PROJECTS

Dismantling , Re-installation and Erection of Formalin Complex

- **Scope of Work:**

- Engineering, Procurement, Supervising services of 109, 000 TPY Aq. Formaldehyde / 69, 000 TPY Urea Formaldehyde Concentrate (UFC – 80) and 107, 000 TPY Amino (UF) Resin plants

- **Client:** Entekhab Investment Development Group (EIDG)

- **Technology Provider:** Sadepan Chimica Italy

- **Duration:** 24 Months

- **Project Progress:** 60 %

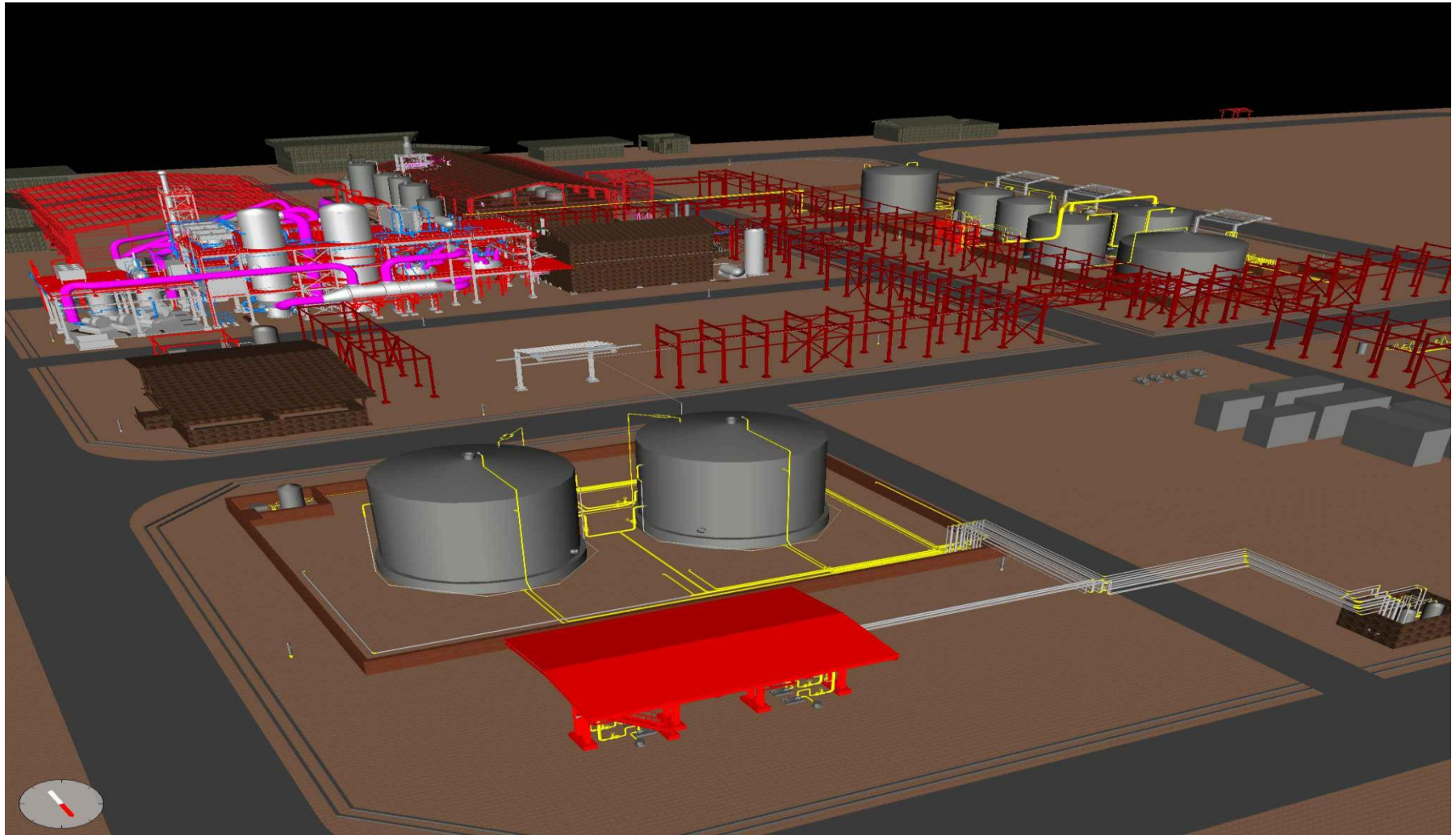
- **Major Activities:**

- Presenting site supervision engineering services (Preliminary and detailed)
- Supervision of dismantling of Formalin plant in Italy
- Supervision, managing and assessment of supervisory reports of main processing equipment and plant utility
- Re- generation and Preparing engineering documents for construction and erection of plant in Gheshm
- Procurement services
- Managing and Project Control
- Supervision and inspection of subcontractor activities in constructing and erecting and continuous report to client



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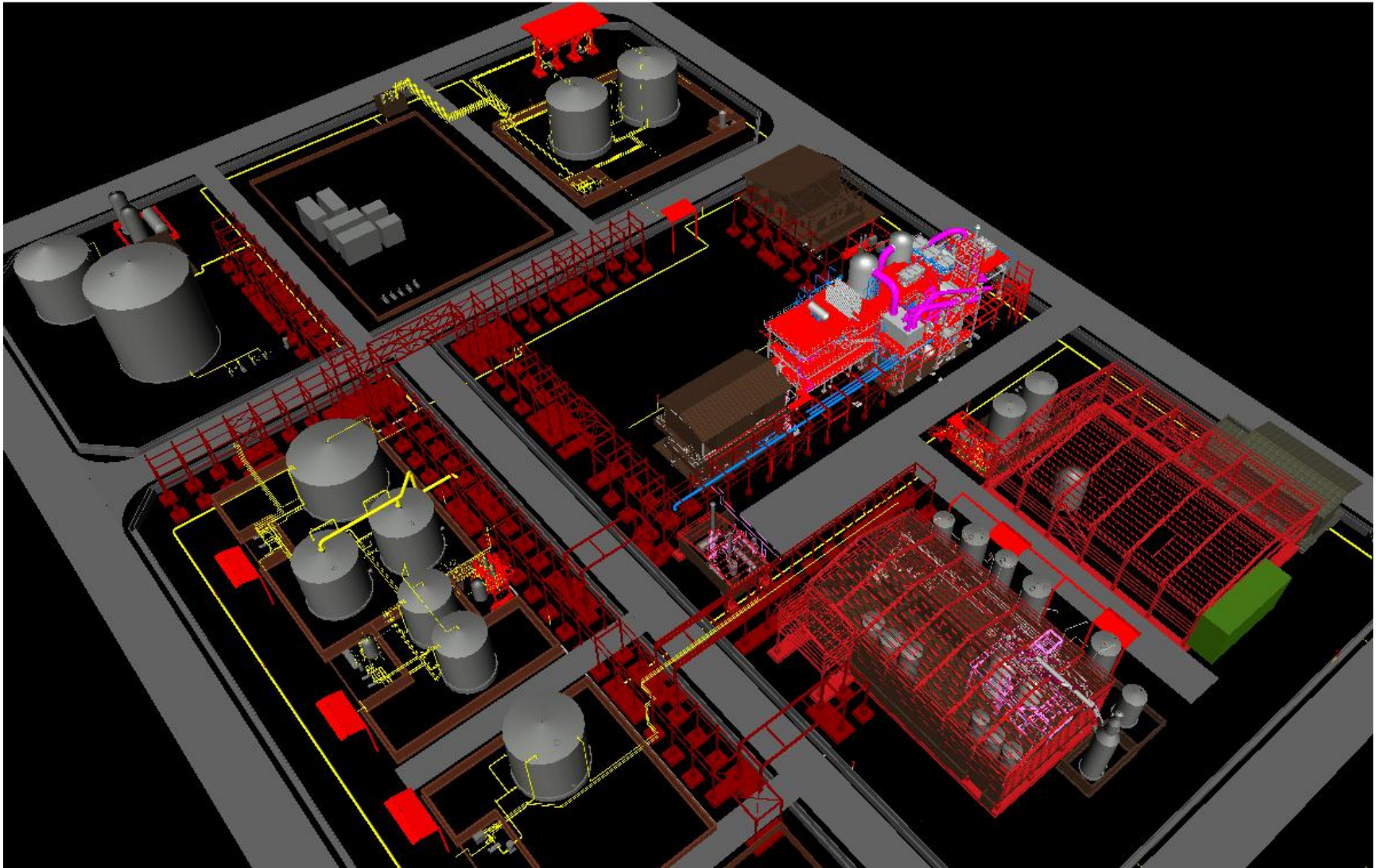
Formalin Complex





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Formalin Complex





MAJOR REFERENCE PROJECTS

Flare Gas Recovery of Ahvaz-2 Oil Production and Gas Compression Units

- **Scope of Work:**
 - Conceptual and Feasibility Study of alternatives and Basic Design of selected method for Flare Gas Recovery of Ahvaz-2 Oil Production and Gas Compression Units
- **Client:** National Iranian South Oil Co. (NISOC)
- **Duration:** 24 months
- **Project Progress:** 85%
- **Major Activities:**
 - Field survey and data gathering for finding the flaring sources and rates
 - Feasibility study of all available and common methods of flare gas recovery used in the world
 - Conceptual and Basic design for the final selected method for flare gas recovery in all disciplines
 - Preparation EPC tender documents



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MAJOR REFERENCE PROJECTS

Study And Preparation of Contracting Services and Preparation of Tender Documents - Completion Of Nargesi Defects

- **Scope of Work:**
 - Study And Preparation of Contracting Services and Preparation of Tender Documents - Completion Of Nargesi Defects
- **Client:** National Iranian South Oil Co. (NISOC)
- **Duration:** 2 Months
- **Project Progress:** Completion



MAJOR REFERENCE PROJECTS

Preparation of tender Documents for Nafte Sefid oil field gas and oil system optimization & renewal project

- **Scope of Work:**
 - Preparation of tender Documents for Nafte Sefid oil field gas and oil system optimization & renewal project
- **Client:** National Iranian South Oil Co.
- **Duration:** 2 Months
- **Project Progress:** Completion
- **Major Activities:**
 - Preparing the document of Naft Sefid Project



MAJOR REFERENCE PROJECTS

Site Supervision Engineering Services for Bandar Abbas Gas Condensate Refinery

- **Scope of Work:**
 - Site Supervision Engineering Services for Bandar Abbas Gas Condensate Refinery (zone 4 & 5)
- **Client:** Persian Gulf Star Oil Co.
- **Duration:** 18 Months
- **Project Progress:** 90 %
- **Major Activities:**
 - Presenting site supervision engineering services for units 88, 68, 66, 18, 16, 04 (Isomerization & GOHT-KHT) including engineering services , managing & supporting for project execution



MAJOR REFERENCE PROJECTS

Claim Management of Kharg Island Gas Gathering & NGL Recovery Project

- **Scope of Work:**
 - Claim Management of Kharg NGL project
- **Client:** Iranian Offshore Oil Co. (IOOC)
- **Duration:** 12 Months
- **Project Progress:** 100 %
- **Major Activities:**
 - Technical assessment / verification of the contractor's claims (engineering, procurement, construction/commissioning etc.)
 - Contractual and commercial assessment/verification of claims including the main EPC contractor and subcontractors' contracts.



MAJOR REFERENCE PROJECTS

Management and Engineering consulting services for RESHADAT OFFSHORE RENOVATION PROJECT

- **Scope of Work:**
 - Management Consultancy, logistic, Engineering and technical backup of Reshadat development and renewal of Reshadat oil field
- **Client:** Iranian Offshore Oil Co. (IOOC)
- **Duration:** 30 Months
- **Major Activities:**
 - Logistic Management including Man Power ,Management of inventory, stationing of personnel, supplying accommodation, office, etc. and all related services)
 - Planning, Execution and control
 - Assessment of engineering documents
 - Construction supervision
 - Engineering and procurement supervision



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MAJOR REFERENCE PROJECTS

High Supervision and Constriction Supervision and Engineering Services for F&G System of Kish Island

- **Scope Of Work :**
 - High Supervision and Constriction Supervision and Engineering Services
- **Client:** Kish Port & Airport Development & Management Co
- **Duration:** In progress
- **Major Activities:**
 - High Supervision and Constriction Supervision ; including piping , pipeline , pump house, tanks , instrumentation and Electrical systems (ports and warehouses)



MAJOR REFERENCE PROJECTS

Mansour Abad Oil Fields Development Project

- **Scope Of Work :**

- Basic endorsement , Detail and procurement Engineering Services
- EPC Management Services Including Project and construction Management Services

- **Client:** National Iranian South Oil Co.

- **Duration:** In Progress

Major Activities:

- Basic endorsement
- Detail and procurement engineering :
 - Wellhead facilities (13 wells)
 - Crude oil flow lines
 - Separation units (3 Booster clusters)
 - Oil and gas transfer lines
 - Power line (23km overhead power line)



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MAJOR REFERENCE PROJECTS

Management Consultancy (MC) and engineering Services for GHADIR-JASK Refinery

- **Scope Of Work :**
 - Management Consultancy (MC)
 - Engineering Services
- **Client:** GHADIR-JASK Petro-Refinery company
- **Duration:** In Progress
- **Major Activities:**
 - Project Management
 - Bankable Feasibility Study
 - License and Technology (Negotiation, evaluation and PDP Review)
 - Basic design Tender preparation
 - Basic design Supervision
 - Interface Integration
 - Engineering Integration



MAJOR REFERENCE PROJECTS

High Supervision and Constriction Supervision and Engineering Services for Shahid Rajaei port and Pipeline corridor

- **Scope Of Work :**
 - High Supervision and Constriction Supervision and Engineering Services
- **Client:** Ports and Maritime Organization of Hormozgan
- **Duration:** In Progress
- **Major Activities:**
 - Terminal and Oil Tanks, pump station, Piping and F&G system.



MAJOR REFERENCE PROJECTS

Parsian Sepehr Ethan Recovery Project (C2+ Recovery)

- **Scope Of Work :**
 - Detail and procurement engineering services
- **Client:** Palayeshgah Parsian Sepehr Company
- **Duration:** In Progress
- **Major Activities:**
 - Detail and Procurement Engineering Services For Parsian Gas Refinery (C2+ Recovery) Including Turbo Compressors , Industrial and non-industrial buildings ; Control Room ,Substation and Process Design



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