





| Factory Address: | Alley 50, Zand Blvd, Shira: | No. 14 & 15, 257th Street | Postal Code: 71348-4367 | South Ebteicar Blvd | Shiraz Great Industrial Zone | Fax: 498 71 3235 6037 | Tale: 498 71 3235 6037 | Fax: 498 71 3235 6037 | Fax: 498 71 3255 | Fax: 498 71 3255 | Fax: 498 71 3255 | Fax: 4

Office Address:

No. 2, Sim-o-Zer 1 Building, Abaeian 2
Alley 50, Zand Blvd, Shiraz - Iran,
Postal Code: 71348-43678
Tel: +98 71 3230 9185-6
Fax: +98 71 3235 6037
email: info@greenmle.ir







»History

Green Mile Co. was established in 2004 in order to fabricate professional packages, localize and technology transferring to domestic companies in Shiraz. With a professional engineering and fabrication teams, GMC offers extensive resources for a wide range of products and providing technical & practical solutions for our customer's requirements.

Our professional team support our customers from bidding stage till operation with technical consultancies, presence in commissioning and availability during the operation for providing any required spare parts or troubleshooting.

Honest communicating has made a long term trust between GMC and our customers. We are now accepted in all main AVLs of NIOC subsidiaries. GMC is awarded as Customer Oriented company in 5th Customer Satisfaction Congress held by National Association of Consumer Rights in February 2016 and 2017.



Chemical Injection Packages

Chemical Injection Packages are widely used in Refineries. Petrochemicals and Steel Companies, Green Mile Co. as a professional manufacturer of these packages with more than 10 years' experience in design and fabrication of more than 200 Chemical Injection Packages for On-Shore and Off-Shore projects inside and outside of Iran, is the top choice of owners and clients. Chemical Injection Packages are Tailor Made. Each Package will be designed and fabricated specifically based on the project requirements and will be customized considering the type of chemical, required flow, discharge pressure, area classification and any special requirements raised by purchaser.







GREEN MILE

- Corrosion Inhibitor Injection Packages
- Anti-Foam Injection Packages
- PH Controller Injection Packages
- Hydrazine Injection Packages
- Phosphate Injection Packages
- Caustic Injection Packages
- Catalyst Injection Packages
- Hypochlorite Injection Packages
- Biocide Injection Packages

- Demulsifier and Reverse Demulsifier Injection Packages
- Oxygen Scavenger Injection Packages
- Amine Injection Packages
- KHI Injection Packages
- Scale Inhibitor Injection Packages
- Wax Inhibitor Injection Packages
- Asphaltene Injection Packages
- Sulfuric Acid Injection Packages
- Ammonia Hydroxide Injection Packages
- Flocculent Injection Packages











Refrigeration Our specialized expertise in this area can only be

Our specialized expertise in this area can only be acquired over years of industrial refrigeration experience. We apply this knowledge in every designing order to fabricate efficient, rugged and reliable systems for petrochemical, pharmaceutical, oil refining, natural gas processing, industrial gases, liquefied gas storace, and related markets.

These high-specrefrigeration systems comply with the requirements stringent in petrochemical Plants where higher reliability and safety are required. We comply with domestic and foreign standards and Explosion proof specifications, in addition to American Petroleum Institute (API) standards and customer's proprietary specifications.

We have successfully commissioned two first Iranian ammonia refrigeration packages for Shiraz third Urea and ammonia plant (318.3TR) and Razi third ammonia storage tank (1098.9TR) projects, which are now in service for more than one year with the client satisfaction.





The FIRST Approved Iranian Manufacturer of Refrigeration Packages in PIDMCO AVL

The first Iranian manufacturer with live references in Iran

PROJECT	FLUID	CONTRACTOR	DELIVERY DATE	LOCATION
• Shiraz 3 rd Urea & Ammonia Plant	Ammonia	PIDEC	2014	Shiraz, Iran
• Razi 3 rd Urea & Ammonia Plant	Ammonia	HEDCO	2015	Mahshahr, Iran



Methanol Injection Packages Methanol Injection Packages are normally used for

Methanol Injection Packages are normally used for Dehydration. The packages concept is similar to chemical injection packages, with special considerations for injection of methanol which requires a pressure vessel with a complete purging system for storage of Methanol and normally huge capacities of injection comparing to normal ranges of API 675 type pumps.

We have a valuable experience of designing and manufacturing such packages for South Pars SP19 on-shore facilities. Methanol Injection of 1500 to 2000 lit/hr with 90 bar discharge pressure using single and double head API 675 type pumps are already successfully under operation in different units of SP19 located in beautiful shores of Persian Gulf.

Like other chemical injection packages, Methanol injection packages are also special design packages and will be designed based on project requirements with wide ranges of capacities and discharge pressures.







Sprinkler Packages

Sprinkler systems are used to protect areas from fire distribution based on F&G philosophy of industrial areas. Package location and distribution and allocation of Spray Nozzles could be designed and supplied by us. Our best reference in this field is the Sprinkler systems for South Pars Off-Shore Platforms of phases 19, 20 and 21.





7





Desuperheater & I n j e c t i o n Nozzle System



Spray Nozzle is a device which is used for injection of different chemicals in pipelines. For some chemicals this is to provide an injecting connection and in others like Methanol injection, there is not only a need for injection but also Spraying inside the pipeline.

Green Mile Co. is a professional manufacturer of lances and injectors for different applications.





Boiler Chemical Injection Train

For each boiler set in Power Plants, one train of Chemical Injection Packages including Hydrazine, Ammonia, HP and LP Phosphate are required. Green Mile Co. is the first and only Iranian manufacturer of these packages which is approved by Mapna and suppled many sets of packages for different projects done by Mapna Boiler Group in Iran.





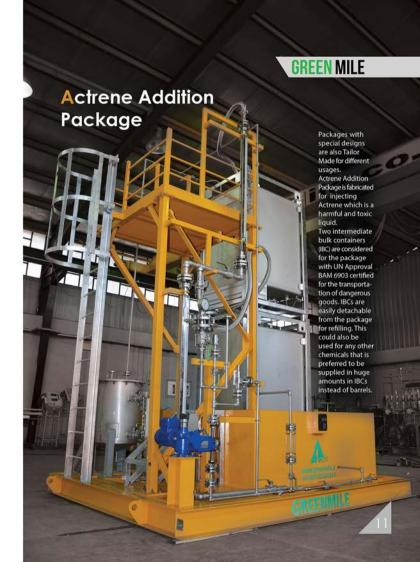
Nitrogen Packages





Green mile company is an expert designer and Manufacturer of nitrogen packages used to reach 99 and higher percentage of nitrogen from air by using proper desiccants to remove other gases from air.







Dry Gas Seal Panels





The dry gas seal panel is a critical part of a dry gas seal system. Once a seal configuration has been selected, a panel must be designed to support the dry gas seal cartridge. The panel design must deliver sufficient and proper seal supply gas to the dry gas seal. The panel consist of filters, pressure/flow control valves and various devices to condition, control, and monitor the gas into and out of the dry gas seals. Panel is designed to supply seal buffer gas to the shaft seals of various rotating compressors, providing containment of these process gases.

LPG Odorant Package odorizer

Odorant Packages a r e used to add aromatic agents to gases. The most usual usage is adding Ethanethiol (Ethyl Mercaptan) which has a distinct odor to LPG to make any possible leakage noticeable. Ethanethiol is intentionally added to butane and propane to impart an easily noticed smell to these normally odorless fuels that pose the threat of fire, explosion, and asphyxiation.





112



GREEN MILE



OUR PRODUCTS
COMPLETED BY THE BEST
AFTER SALES SERVICES





Compressor Offline **Washing** System



Compressor cleanliness can be maintained using a routine program of water washing. There are two water wash maneuvers performed on gas turbines: offline and online. An offline maneuver is conducted with the gas turbine in a cooled state using cranking speed, while an online maneuver is conducted with the machine at operating temperature and uses water only. Both operations use highly atomized water spray patterns designed to completely enter the compressor core. The offline system cleans the entire cor and recovers lost performance, while the online system cleans the early stages and maximizes the period between needed offline washing to provide peak availability.

Green Mile Company is an expert designer and manufacturer of water washing systems comply with domestic and foreign standards and Explosion proof specifications, in addition to American Petroleum Institute (API) standards and customer's proprietary specifications.



Phosphate Injection Package

designer and fabricated for "Foulad Mobarake" Steel Company. We are designed and manufacturer of such packages for Steel Companies based on related process requirements.





17



REFERENCE LIST PROJECT SUBJECT QTY OWNER CONTRACTOR LOCATION Chemical Razi 3rd Urea & Ammonia Mahshahr, Injection 3 NPC/ PIDMCO PIDEC Plant Iran Packages Chemical Abadan, Abadan Refinery Injection 10 AORC PIDEC Iran Packages Chemical Nairobi, Kenya Power Plant Injection 1 KenGen FARAB Kenya Packages Chemical Shiraz Urea & Ammonia Shiraz, Injection 4 NPC/ PIDMCO PIDEC Plant Iran Packages Chemical Kharg Island, Kharg MEG 3 NPC/ PIDMCO PIDEC Injection Iran Packages Chemical Abadan, 4 AORC Abadan Refinery Injection PIDEC Iran Packages Chemical Abadan, 3 Abadan Refinery Injection AORC PIDEC Iran Packages Chemical Isfahan. Isfahan Refinery Injection 1 EORC NAMVARAN Iran Packages Chemical Abadan, Abadan Refinery 3 AORC PIDEC Injection Iran Packages Chemical Bandar Abbas. Bandar Abbas Refinery Injection 20 NIOEC PIDEC Iran Packages Ammonia Shiraz 3rd Urea & Ammonia Shiraz, Refrigeration 1 NPC/ PIDMCO PIDEC Plant Iran Package

PETROPARS,

SAZEH, NARGAN

NARDIS

AZARAB

Assaluyeh,

Iran

Assaluyeh,

Iran

Lorestan,

Iran

GREEN MILE

	REF	EREN	NCE LIST		
PROJECT	SUBJECT	QTY	OWNER	CONTRACTOR	LOCATION
Mahabad Petrochemical Co.	Chemical Injection Packages	3	NPC/ PIDMCO	AZARAB	Mahabad, Iran
Gachsaran New Gas Compressor Station	Chemical Injection Packages	1	NISOC	DARYA SAHEL	Gachsaran, Iran
Homs Refinery	Chemical Injection Packages	3	HOMS REFINERY	AZARAB	Homs, Syria
Razi 3 rd Urea & Ammonia Plant	Ammonia Refrigeration Package	1	NPC/ PIDMCO	HEDCO	Mahshahr, Iran
South Pars Gas Field Development, Phase 19, 20 &21 Off-Shore Platforms	Chemical Injection Packages	12	POGC	IOEC	Persian Gulf Iran
Khesht Oil Filed	Chemical Injection Packages	4	ICOFC	SADRA-OEID	Khesht, Iran
Kharg NGL	Chemical Injection Packages	3	1000	PETROSAHEL IRITEC-IRASCO	Kharg Island Iran
South Pars Gas Field Development, Phase 20 & 21 On-Shore	Chemical Injection Packages	3	POGC	MOJAN-OIEC	Assaluyeh, Iran
Morvarid Petrochemical Co.	Chemical Injection Packages	2	NPC/ PIDMCO	PIDEC-MES	Assaluyeh, Iran
Naein/ Kashan/ Rey Pipeline	Chemical Injection Packages	1	NIOEC	DANIAL PETRO	Naein, Iran
Entekhab Petrochemical Co.	Chemical Injection Packages	3	Entekhab Co.	ARKAN SAKHTAR BARTAR	Assaluyeh, Iran
South Pars Gas Field Development, Phase 13, 22 & 24 On-Shore	Dry Gas Seal Panel	8	POGC	TUGA (MAPNA)	Assaluyeh, Iran
South Pars Gas Field Development, Phase 19 Off-Shore Platform	Sprinkler Package	2	POGC	IOEC	Persian Gulf Iran
Bushehr Methanol Plant	Chemical Injection Packages	4	BUPC	PIDEC	Assaluyeh, Iran

18

South Pars Gas Field

Development, Phase 19

On-Shore

Iran LNG

Lorestan Petrochemical Co.

Chemical

Injection

Packages Chemical

Injection

Packages Chemical

Injection

Packages

32

10

3

POGC

IRAN LNG

NPC/ PIDMCO



Bushehr Methanol Plant

Mobarakeh Power Plant

Injection Nozzle

Chemical

Injection Packages

1

REFERENCE LIST						
PROJECT	SUBJECT	QTY	OWNER	CONTRACTOR	LOCATION	
South Pars Gas Field Development, Phase 20-21 Off-Shore Platform	Sprinkler Package	2	POGC	IOEC	Persian Gulf, Iran	
South Pars Gas Field Development, Phase 13, 22 & 24 On-Shore	Compressor Water Washing System	1	POGC	TUGA (MAPNA)	Assaluyeh, Iran	
Parand Power Plant	Chemical Injection Packages	12	IRAN POWER DEVELOPMENT Co.	Mapna Boiler & Equipment	Tehran, Iran	
Assaluyeh Power Plant	Chemical Injection Packages	12	IRAN POWER DEVELOPMENT Co.	Mapna Boiler & Equipment	Assaluyeh, Iran	
Kashan Power Plant	Chemical Injection Packages	3	IRAN POWER DEVELOPMENT Co.	Mapna Boiler & Equipment	Kashan, Iran	
Hengam Fertilizer Plant	Chemical Injection Packages	8	Hengam Petrochemical	PIDEC	Assaluyeh, Iran	
14" Fuel Pipeline to Chabahar Power Station	Chemical Injection Packages	1	NIOEC	Shiraz Sadid	Chabahar, Iran	
Bandar Abbas Gas Condensate Refinery	Odorizing Packages	1	Persian Gulf Star Oil Co.	Faradast Energy Falat	Bandar Abbas	
Kangan Utility & Offsite	Chemical Injection Packages	3	Kangan Petro Refining	EIED/ Mapna Boiler & Equipment	Kangan, Iran	
JAM ABS & Rubber Plant	Actrene Injection Package	1	Jam Petrochemical Co.	Jondishapour	Assaluyeh, Iran	
Isfahan Oil Refinery	Red & Blue dye Injection Packages	2	Isfahan Refinery	Neyr Perse	Isfahan, Iran	
Tous Power Plant	Chemical Injection Packages	12	IRAN POWER DEVELOPMENT Co.	Mapna Boiler & Equipment	Tous, Iran	
		_				

BUPC

Mobarakeh Steel

Company

GREEN MILE

REFERENCE LIST						
PROJECT	SUBJECT	QTY	OWNER	CONTRACTOR	LOCATION	
Sabalan combine cycle power plant	Chemical Injection Packages	12	SABALAN BARGH OMID Co (SBO)	Mapna Boiler & Equipment	Ardabil, Iran	
Assaluye Condensate Storage Tank Farm	Chemical Injection Packages	1	P.O.G.C.	NARDIS	Assaluyeh, Iran	
Isfahan Oil Refinery	LPG Odorant Injection	1	Isfahan Refinery	Neyr Perse	Isfahan, Iran	
Parsian C2 Recovery & Fractionation Project	Chemical Injection Packages	5	Palayesh Parsian Sepehr Co. (PPSC)	HEDCO	Assaluyeh, Iran	
KANGAN Utility & Offsite	Chemical Injection Packages	5	Kangan Petro-Refining Co. as "KPRC"	EIED	Kangan, Iran	
Shiraz Refinery	Chemical Injection Packages	1	Shiraz Refinery	Shiraz Refinery	Shiraz, Iran	
Industrial Turbine Washing Skid	Water Washing System	7	MAPNA	TUGA	120	
ILAM OLEFIN PLANT PROJECT	Water Chamber	10	ILAM PETROCHEMICAL Co.	Radman Process Control Company "RAPCO"	llam, Iran	
MOKRAN BOILER PLANT	Injection Package	3	MAPNA	Mapna Boiler Company	Chabahar, Iran	
KAVEH METHANOL PLANT	Injection Spray Nozzle	1	KAVEH METHANOL Company	PIDEC	Dayyer, Iran	
URMIEH BOILER PLANT	Injection Package	9	MAPNA MD2	Mapna Boiler Company	Urumieh, Iran	
RUMAILA BOILER PLANT	Injection Package	9	AFAGH ENERGY PARS	Mapna Boiler Company	Rumaila, Iran	

Assaluyeh,

Iran

Isfahan,

Iran

EIED

Mapna Boiler &

Equipment







GREEN MILE EQUIPMENT

A Great GMC branch, specialist in supplying oil, Gas and petrochemical industry items comprising instrument, electerical, special equipment and piping raw material fields.











■ DPI



■IG:



■ DPI



omo

Special Tools and Accessories







Pump Diaphragm Vacuum Device

Pulsation Dampener Charging Kit

Calibration Pot





Pulsation Dampener



Pressure Safety Valve

Adgitators and Static Mixers Joint Venture





Agitator GreenLine ACT

Three blades impeller 3PM-0134/HURRICANE Slow speed, with coaxial Supporting coasial axis gearreducer Sleeve rigid joint with epaxy paint



Agitator GreenLine ALH

Marine propeller High speed without gear speed reducer Three phase, single phase and or motor Supporting lantern



Agitator Greenline ADH

Marine propeller High speed, without gate speed reducer three phose, single phase and air motor shaft, rigid coupling and propeller in SSIAL with height-adjustable propeller.



Agitator GreenLine AVP Turbine with 4 blades in-

alned at 45° Slow speed, with worm Shaft and impeller in \$\$31.6L with height-adjustable furbine



Agitator GreenLine ACP Turbine with 4 blades in-

clined at 45° Slow speed, with coaxial Supporting coaxial axis gear reducer Sleeve rigid joint with



Agitator Greenline ACR

Two blades special paddle 2PM-0650/PREMI-

Agitators for flooculation Version "Li" for surface water with inverter built-in electric motor Slow peripherical speed. with coaxial gear



GREEN MILE Co.

Green Mile is located in Shiraz, Iran. Our shop area is almost 4000 Sq.m., with two 2000 Sq.m roofed fabrication saloons. Over 180 Injection Packages are delivered to different on-shore and off-shore projects, inside and outside of Iran till end of 2017.

We have worked with and delivered our packages to almost all main contractors in Iran for years, among them are Mapna Boiler, Mapna TUGA, Petro Pars Iran (PPI), PIDEC, Sazeh, Nargan, Iranian Offshore Engineering and Construction Company (IOEC), OEID, EIED, Nardis, Azarab, Farab, Sadra, Hedco, Faradast Energy Falat, Jondishapour and also Tecnimont, the international contractor.

GREEN MILE

OUR PRODUCTS completed by the best after sales services





R&D

Our R&D department has focused to localize some complicated packages. Our first new successful gain was Ammonia Refrigeration Packages for which we are the first Iranian Manufacturer. We are thoroughly working on different on-skid packages. Our R&D department is eager to cooperate with clients and customers to localize various product to satisfy different projects requirements.

Quality Assurance

Our QA department has established fundamental Quality Assurance System in GMC for all aspects covering engineering to fabrication and final test. GMC is certified for below System Certificates:

Customer Satisfacation Certificate 2016-2017











ISO 9001: 2008 Quality System Certificate



ISO 14001: 2004 Environmental Management System Certificate



ISO 18001: 2007 Health & Safety Management System Certificate



ISO/TS 29001: 2010 Quality System Certificate



Quality System Certificate

