

A Product of
Energypac[®]



UR PROFILE



COMPANY PR FILE

Born in 1982, Energypac has been working to help boost power engineering business in Bangladesh. It eyes excellence in business to achieve techno-versatility. Remarkably, through relentless endeavor for about three decades, Energypac is now deemed as the top power engineering business. Besides its routine biz, it hunts indigenous talents across the country and inducts in the team. Over the span of time it has grown to a large group of companies empowering around 5000 talented people (Amongst 850 Graduate Engineers, 1300 Diploma Engineers and more than 1500 graduates from the most reputed institutions of home and abroad) and stepped into diversified business exposures. A blend of extremely talented workforce from educational backgrounds of engineering, business and others provides the blood flow through the veins of the company.

Energypac, today stays in the top-of-the-minds for its expertise and superior service propositions in the respective industry. We thrive to deliver superior after-market care and enthusiastically 'Say yes to all our customer need'.

Energy works wonder is EPGL's motto. The company is committed to bring about these wonders into the lives of people with the most advanced technology. Energypac endeavors to eradicate the deficit in country's energy sector to improve the quality of the lives of its employees and the communities it serves. The company aims to achieve this mission not only through best quality products but also through excellence in service.



THE STORY OF G-GAS

G-Gas LPG is a product of Energypac Power Generation Limited (EPGL), one of the pioneers in the power engineering business in Bangladesh. Being a power business dome of Bangladesh, EPGL set its course on spreading the energy service to each corner of the country. To meet the excessive demands for clean energy resources, EPGL brought G-Gas LPG to the market.

The slogan of G-Gas is “ভালো থাকুন, ভালো রাখুন”. Staying true to it, G-Gas is reaching out to the regular people at even the most remote corners of the country with solutions to improve their overall standards of living. G-Gas aims to play a crucial role in the extensive social and economic growth of Bangladesh. Dacope, a sub-district of Khulna has already become economically active, and a change has taken place for the financial conditions of these people through the generation of greater employment opportunities.

OUR STRATEGIC BUSINESS UNITS (SBUs)

Energypac Engineering Ltd.

Energypac Power Generation Ltd.

Energypac Electronics Ltd.

Energypac Agro Ltd.

Energypac Fashions Ltd.

Energypac Power Venture Ltd.

Design Express Ltd.

Deoti Fashions Ltd.

Energypac Infrastructure & Development Ltd.

EPGL'S DIVERSIFIED PRESENCE: PROVIDING END TO END ENGINEERING SOLUTION

- Power EPC
- Power IPP
- Power O&M
- Diesel Generators
- Ankai Buses
- Commercial Vehicles
- Construction Machineries
- Material Handling Equipments
- Agro Machineries
- Steel Construction Solutions
- Elevators
- Spare Parts and Services
- Oil & Gas

OIL & GAS

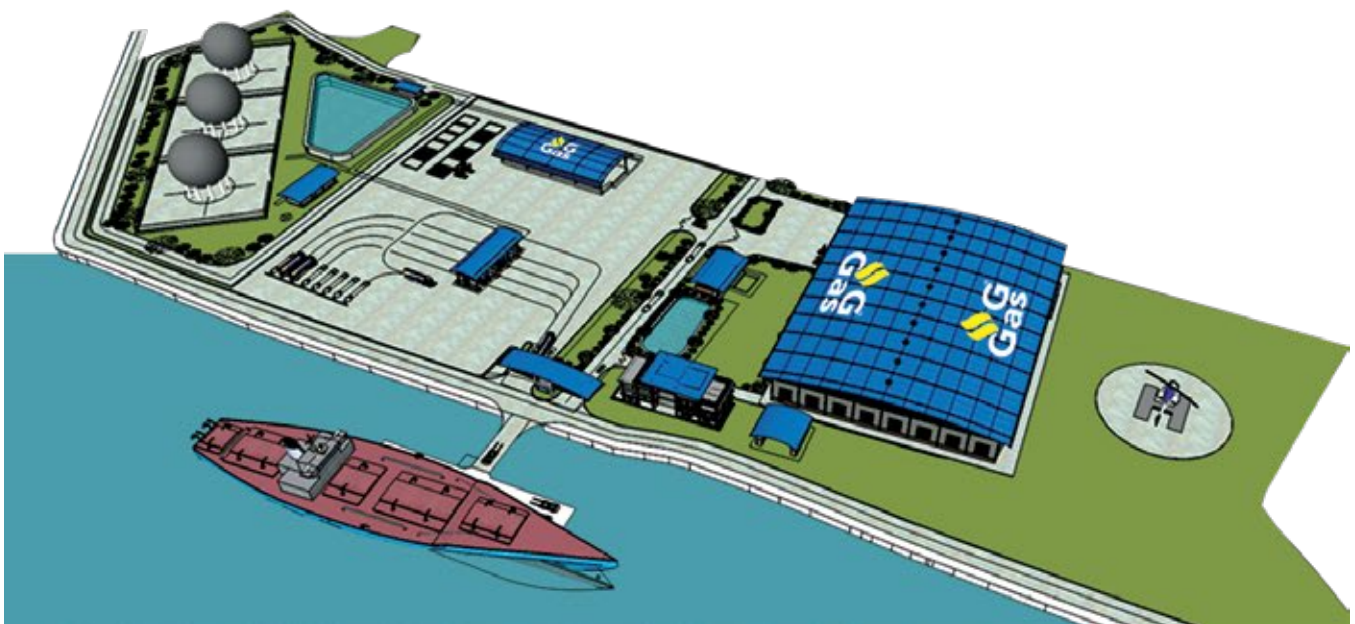
- Energypac has been operating in the Oil & Gas sector since 2003
- With an experience of operating 20 CNG refueling stations across the country
- Through an agreement with Sylhet Gas Field Ltd. EPGL is currently set to establish a catalytic reforming unit at Rashidpur in Habiganj. Once completed, it will produce about 2,800 barrels of octane and 25 tonnes of liquefied petroleum gas daily from condensate.

LIQUEFIED PETROLEUM GAS (LPG) STORAGE AND BOTTLING PLANT:

Energypac has already been one of the leading companies in the power & energy sector of the country. As LPG is now one of the major sources of energy in the country, EPGL stepped into the LPG business activities to import, store, bottle and market LPG in Bangladesh to meet the extensive demands of fast growing LPG users. LPG is an intermediate product between natural gas and crude oil and is one of the most common cooking fuels besides firewood. With the extensive socio economic growth of the country, traditional firewood users are now converting to LPG.

The prime objective of G-Gas is to offer LPG fuel solutions to mitigate the mounting demands of an ever growing market. Bangladesh is in acute need of alternative fuel sources for sustainable growth, and LPG is also becoming a good alternative to CNG.

G-Gas aims to meet the ever increasing consumer demands as the best solution for cooking fuel, commercial needs and automobile fuel.



GENERAL ASPECT OF THE COMPANY

G-Gas LPG

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G-Gas aims to play a crucial role in the extensive social and economic growth of Bangladesh. Dacope, a sub-district of Khulna has already become economically active. A change has occurred to the financial situations of the people by opening scopes for employment.

EPGL is using world class technology to manufacture its cylinders and bottling installed under the expert supervision of ROKTEK from Turkey and France's SIRAGA. To further ensure consumer safety each cylinder is manufactured under compliance of American Standard specifications standards, with a certain thickness that helps provide the optimal levels of safety. Through a nationwide distribution channel, G-Gas supplies LPG solutions to every doorsteps of the country.





G-GAS CYLINDER MANUFACTURING PLANT

G-Gas has built consolidated Cylinder manufacturing factories at the same premises with the monthly production capacity of over One Lac Cylinder.

G-Gas is using world class technology to manufacture its cylinders and Bottling which has been installed under the expert supervision of ROKTEK, Turkey and SIRAGA, France. To ensure the complete safety of its users, each of G-Gas cylinder will be manufactured complying American Standard specifications DOT-4BA-240, with the standard thickness that can further assure the most optimal levels of safety.

From the production of G-Gas cylinders till its delivery to the consumers' doorsteps, international LPG policies and the policies of Bangladesh's Department of Explosives are adhered to at every level.

PRODUCTION CAPACITY

SKU	Machine Capacity	Actual FG
12 KG	220 Pcs/hour	180 Pcs/hour

Product Feature

Item	Specification
Cylinder	12 Kg LPG Cylinder
Design Code	DOT 4BA 240
Water Capacity	26.4 Ltr
Cylinder Material	Steel Grade JIS G 3116 SG 295
Valve Boss	EN 10083-2 C 22 or 0.25%C Max Equivalent
Cylinder	35 Kg LPG Cylinder
Design Code	DOT 4BW 240
Water Capacity	80 Ltr
Cylinder Material	Steel Grade JIS G 3116 SG 295
Valve Boss	EN 10083-2 C 22 or 0.25%C Max Equivalent
Cylinder	45 Kg LPG Cylinder
Design Code	DOT 4BW 240
Water Capacity	108 Ltr
Cylinder Material	Steel Grade JIS G 3116 SG 295
Valve Boss	EN 10083-2 C 22 or 0.25%C Max Equivalent

Guard Ring & Foot Ring

Guardring & Footring: Mild Steel EN 10025-2 S 235JR or 0.25%C Max Equivalent



Method of Finishing

12 Kg Cylinder

Body Circumferential	Automatic Submerged Arc Welding
Valve Boss	Automatic Submerged Arc Welding
Guardring & Footring	Automatic MIG-MAG Welding

35/45 Kg Cylinder

Body Circumferential	Automatic Submerged Arc Welding
Middle Part Longitudinal	Automatic Submerged Arc Welding
Valve Boss	Automatic Submerged Arc Welding
Guardring & Footring	Automatic MIG-MAG Welding



Finishing line

Heat Treatment	Normalization Process
Surface Treatment	Abrasive Blasting With Cleanliness
Zinc Metallizing	One Coat of Zinc Metallization Coating Min 40 Microns
Guardring & Footring	Automatic MIG-MAG Welding
Painting	One Coat Electrostatic Powder painting Min 70 Microns One Coat Wet Painting Min 25 Microns
Valve Fitting	3/4" – NGT 14TPI

QC Control

Controlling the quality of the processes to ensure 'what is expected & what is delivered' is a key factor in the life of a cylinder after production of the LPG Cylinder. Cylinder must be tested to maintain the high product quality. Main LPG Cylinder Quality Controls are as follows

Quality Testing	Hydrostatic Test, Air Leakage Test, Bursting Test. X-Ray Test, Mechanical Test (UTM)
Test Pressure	34 Bar



Suppliers Information's

SI No	Items	Name of the supplier	Country
1	HR Coil	Nippon Steel Corporation	Japan
		JFE Steel Ltd.	Japan
		POSCO	Korea
		BAO Steel	China
		HBIS	China
2	VALVE & BUNG	CAVAGNA Group Asia Ltd.	Thailand
		SCG	Thailand
3	Welding Flux		China
4	Welding Wire		China
5	Zinc Wire		China
6	Steel Shots		China



LPG PLANT

G-GAS has already established a state-of-the-art initial storage capacity with 5000 M.T. and another 1800 M.T. LPG storage facility is under construction in Dacope, Khulna. G-Gas has its own import arrangements from a world class LPG manufacturing source, a fully automatic LPG bottling facility, an LPG bottle manufacturing plant, and one of the most diversified distribution networks within the country. To meet future needs, G-Gas has also made a provision to further extend the storage facilities as per future market requirements. G-Gas has the capacity to supply a comprehensive range of domestic, commercial, industrial and automotive needs.

SAFETY POLICY

G-GAS will be operated with a steady and strict focus on quality and safety. Rigorous policies are put in place to ensure safety and quality parameters, while adherence to local and international regulations and standards are carried out throughout its operations, including LPG storage, cylinder filling, cylinder manufacturing and cylinder distribution across the country.

Special safety measures are taken before every cylinder refilling to ensure safe usage of filled cylinders at the users' end. Each and every cylinder will be put through a special test process periodically as per the rules of the Department of Explosives, Bangladesh. G-Gas is a proud member of the World LPG Association and abides by the rules and regulations of international safety parameters.

G-Gas Quality Standards

DOT Standard: **DOT-4BA-240**

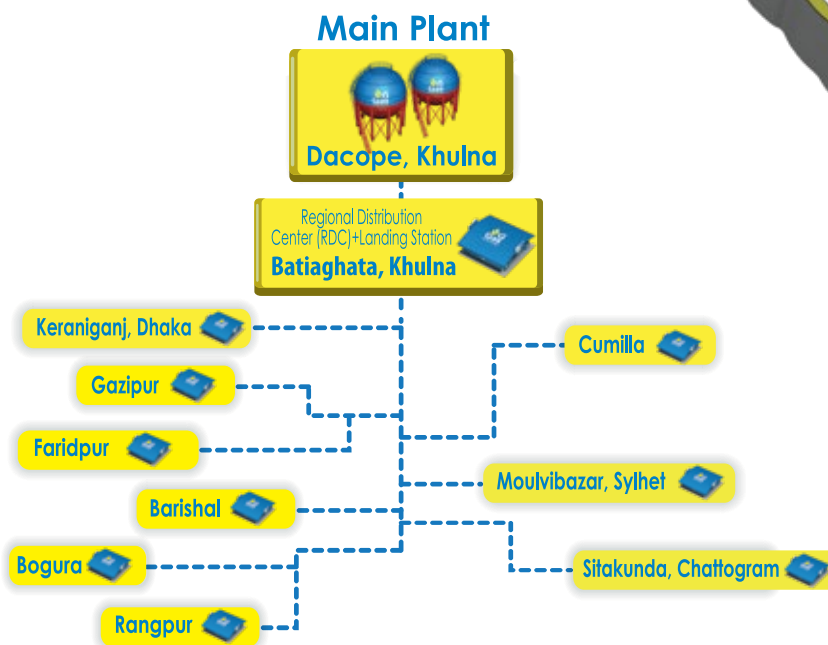
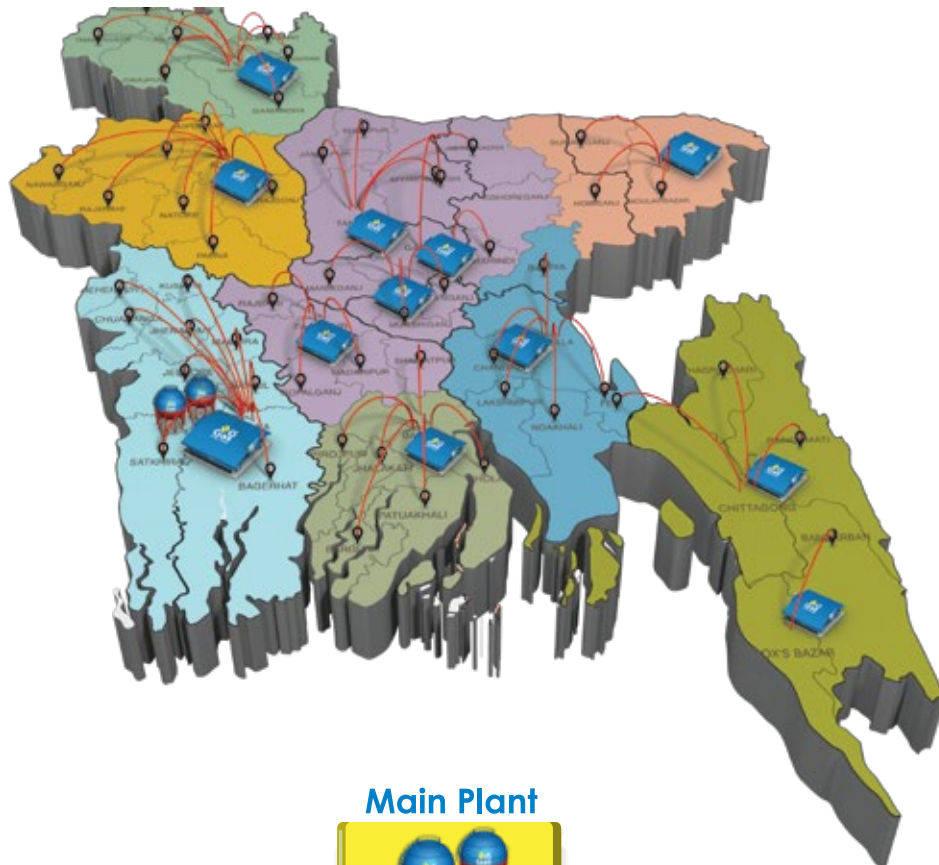
Design: **17 Bar**

Hydro test: **34 Bar**

Bursting Pressure: **110 Bar**

DISTRIBUTION NETWORK

To meet product demands in rural, urban and semi urban areas, G-Gas is committed to set up an extensive and a most diversified distribution network across the country with a significant number of distributors, dealers and retail points. And to facilitate the fastest reach to distributors, G-Gas is working continuously to set up efficient services through various Regional Distribution Centers (RDC), which are strategically positioned at prime locations of the country.



SUPPLY & LOGISTICS

To ensure uninterrupted LPG supply to its consumer, G-Gas has a fleet of dedicated road tankers/bobtails working tirelessly to deliver LPG to its Autogas stations as required.



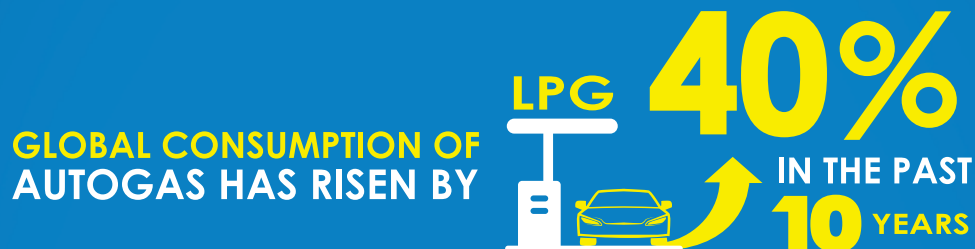
LPG Road Tanker



LPG Cylinder Carrier

POPULARITY OF AUTOGAS WORLDWIDE

- After ethanol, Autogas is now the highest volume alternative automotive fuel in use worldwide.
- Global Autogas consumption rose by 40% in the past 10 years.
- There are now more than 25 million Autogas vehicles in use globally and almost 73,000 refueling stations.



LARGEST AUTOGAS MARKET IN THE WORLD CONSUMPTION WISE (2016)

Country	Consumption (in million tons)	Vehicles (millions)	Refueling Sites
Korea	3.52	2.19	2,031
Turkey	3.14	4.44	10,426
Russia	3.05	3.00	4,900
Italy	1.66	2.21	3,940
Poland	1.79	2.98	5,390
Thailand	1.47	0.92	950
Ukraine	1.39	2.25	3,500
Japan	1.00	0.22	1,440
China	0.99	0.17	550
Australia	0.53	0.36	2,500
Rest of the World	8.17	8.08	40,465
World	26.70	26.81	76,092

*World LPG Association (WLPGA)

BENEFITS OF AN AUTOGAS STATION

- Less Investment compared to CNG
- Better growth and consistent returns
- Less space required to install
- Faster installation of the whole system

G-Gas Satellite Plant - 101



MT G-Gas-101





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