



# SMET SERVICES

One stop Engineering & Technology Services



LPG CNG PETROL DIESEL OCTANE EV CHARGING

## Product Catalogue

# Who We Are!

SMET SERVICES and Saad Motors Ltd. is the leading LPG service provider in Bangladesh. It's experience in the LPG industry made it pioneer in this sector. At present it has services all over the country through its branches.

## The company provides the following services :

- Supply of LPG Filling Station equipment.
- Manufacturing of LPG Dispenser.
- Fabrication of LPG storage package.
- Package of LPG conversion kits.
- Filling station management system.
- Petrol/Octane/Diesel Dispenser.
- LPG conversion works.
- Industrial pressure gauge.
- LPG Bottling plant.
- Engineering Inspection & Testing Services.
- Industrial Products (Electric motor, air filter, generator spares)
- Industrial solution like automation, engineering consultancy etc.
- Providing training on LPG conversion and refueling station.
- Vehicle Tracking System

At present, SMET SERVICES & SAAD Motors Ltd. is running 4 Conversion workshops located at various locations of Bangladesh and 50 LPG Filling stations at different cities. Our vision and mission is to be the Pioneer on LPG & Fuel Station solution provider in Bangladesh.

Apart from the specialization in LPG activities, SMET SERVICES has been working to develop the activities in all other Engineering divisions like Oil & Gas Equipment Division, Civil & Architecture Division, Education & Training Division, Electrical & Electronics Division, Environment Engineering Division, Food & Agro Engineering Division, IT & Computer Engineering Division, Mechanical & Automobile Eng. Division & power plant Engineering division. To build the professionals in all these divisions we are already in process to do joint venture (JV) agreement with some renowned company world-wide.

SMET SERVICES is a company with well-trained professionals has been working in different engineering divisions continuously through efficient communications in order to meet client's needs and requirements. This is the key to the growth to the company's development, Our aim at SMET SERVICES is known as a One stop Engineering Solution (OES) with the ability to complete any kinds of project successfully in various fields. Therefore, we are committed towards fulfilling our vision by providing careful service to all customers.

**LPG Auto Gas Station Equipment**

**LPG Distribution Systems**

**LPG Conversion kits & Tanks.**

**Domestic LPG supply**

**Industrial LPG supply**

**LPG Auto Cylinder Production Plant.**

**LPG Conversion kits & Cylinder.**

**Fuel Dispenser and Tank.**

**Accessories of LPG & FUEL Station.**

**Filling Station Management System**

**LPG Conversion and Service Centers**

**Inspection and Testing Services.**

**Industrial Products.**

**Lubricants.**

**LPG Satellite Station**

**LPG Import Terminal**

**Automobile Sales & Services**

**Automobile Workshop Equipments**

**LPG Auto Gas Station.**

**EV Charging Station**

**Eco Auto Car**

## LPG Auto Gas Station

We offer complete solution of LPG Auto Gas Station equipment on turn-key basis. our Offer comprises the complete range of equipment, consultancy, feasibility study and necessary guidelines for the government approval of the project.



## Components & Specification

- Tank Type: Horizontal
- Capacity: 10000-40000 liter
- Design Temp: 40Deg C to +50Deg C
- Design Pressure: 17.5 bar
- Test Pressure: 26.5 bar
- Dispenser: Double Hose/Single Hose
- Calibration: Electrical and Mechanical
- Pump Capacity: 90 lit/min
- Safety: Gas safety and alarm system, leak deduction
- Pump type: Turbine / Multistage
- Auto printing for Dispenser (optional)
- Station management system (optional)
- Design: Over ground/mounted/Underground Tank

## Packages From

Italy, Turkey, China

## Above Ground Tank View



## LPG Storage Tank



## Control Panel



## LPG Storage Tank Specification

- Description: LPG Storage Tank
- Capacity: 10m<sup>3</sup> - 20m<sup>3</sup> (10,000 ltr.-20,000 ltr.)
- Code: EN13445
- Type: Moundad/Underground/Above Ground
- Design Pressure: 18 Bar
- Design Temperature: -20/+50)°C
- Working Pressure: 17.20 Bar
- Working Temperature: -20/+50)°C
- Test Pressure: 26.5 Bar
- Corrosion Allowance: 1mm
- Shell Thickness: 10mm
- Dished Head Thickness: 12mm
- Tank Accessories: 15 Line items

## Specification

- Level control upto 2 tanks
- Control upto 4 pcs gas sensor.
- 1 pcs x Gas alarm output.
- Control LPG pumps and dispensers based on tank levels.
- Set alarm levels for low and high tank levels.
- 16x2 LCD Information Screen.
- Realtime Clock.
- Plastic IP55 or ATEX certified Exproof enclosure.
- Optional RS232 Communication output.

## LPG Dispenser



## Main Features

- Backlighted LCD displays.
- Electronic and electromechanical totalizers for every dispensing nozzle.
- Hose hanger or hose spring holders (optionally).
- Keypad for amount/volume preselection.
- ATC Sensor
- Double Nozzle
- Good Looking
- Calibration Options Electronic or Mechanic Calibration Options
- Maximum 50 lt/min, minimum 5 lt/min flow rate
- 25 Bar maximum working pressure
- Ambient temperature -25 C / +55 C
- -20 .C / + 60 .C liquid temperature
- %0,5 fuel metering ratio and high sensivity
- Corrosion resistant internal parts
- Corrosion resistive body made of robust materials
- MID and ATEX certificated hydraulic units
- Optional language menu

**Ready  
Stock**

## LPG Pump

### LPG Pump (Multi Channel Type)



Ready  
Stock

### Specification

- Max. Capacity: 35 m<sup>3</sup>/h
- Head: max : 35 bar
- Casing Pressure: max 40 bar
- Speed: max 1750 d/d
- Working temperature: max 120c
- Flange connections: DN 65, DN 32, PN 40
- Temperature Range: -40 °C to +220 °C

### LPG Pump (Turbine Type)



Ready  
Stock

### Specification

- Working pressure: 27.6 bar Max.
- Differential pressure: 17.2 bar Max.
- Impeller :Bronze
- O-ring: Buna-N
- Seal seat: Silicon carbide
- Inlet: 1-1/2
- Outlet: 1
- Motor: 3450 @ 60 Hz or 2880 @ 50 Hz
- 3.5 Kw or 5.5 Kw, Ex-proof ATEX Certificated Motors
- Temperature: Between -35°C and 100°C

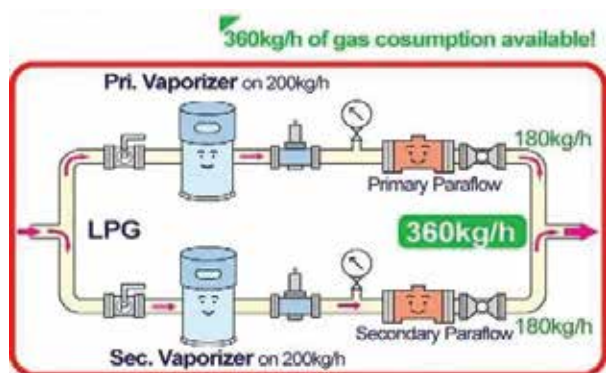
### Loading Pump (Sliding Vane)



Ready  
Stock

### Specification

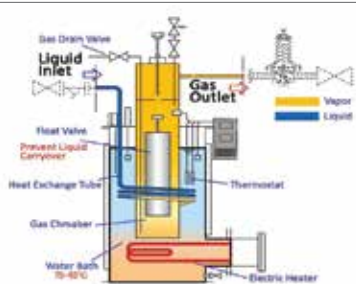
- Available Sizes from 2? to 3?.
- High capacity at lower speeds.
- Internal relief valve.
- Self-priming feature.
- Capacity: 65 m<sup>3</sup>/h max.
- Differential Pressure: 8.5 bar
- Temp. Range: -30 0C to +150 0C



## Industrial LPG System



## LPG Vaporizer P&ID



## Different Type's of LPG Vaporizer



## LPG Vaporizer Technical Specification

Name	SMT-50	SMT-100	SMT-150	SMT-200	SMT-300	SMT-400	SMT-500
Vaporization capacity	50 Kg/h	100 Kg/h	150 Kg/h	200 Kg/h	300 Kg/h	400 Kg/h	500 Kg/h
Power voltage	-380 V	-380 V	-380 V	-380 V	-380 V	-380 V	-380 V
Power	8 KW	15 KW	23 KW	30 KW	46 KW	60 KW	75 KW
Max Working pressure	1.6 MPa	1.6 MPa	1.6 MPa	1.6 MPa	1.6 MPa	1.6 MPa	1.6 MPa
Working temperature	60±2.5 °C	60±2.5 °C	60±2.5 °C	60±2.5 °C	60±2.5 °C	60±2.5 °C	60±2.5 °C
Opening pressure of safety valve	1.8 MPa	1.8 MPa	1.8 MPa	1.8 MPa	1.8 MPa	1.8 MPa	1.8 MPa
Heat exchange medium	water	water	water	water	water	water	water
Inlet size	DN15	DN20	DN20	DN25	DN25	DN25	DN25
Outlet size	DN20	DN25	DN25	DN25	DN40	DN40	DN50
weight	110Kg	110 Kg	150 Kg	180 Kg	240 Kg	280Kg	320 Kg

## LPG AUTO GAS STATION ACCESSORIES

LPG-Filling-Nozzle Acme Type



LPG-Filling-Nozzle Pro type



LPG Dispenser Filter



Bypass Valve



Filling head acme type



Filling head pro type



Differential Valve



Break Away Valve



Dispenser Separator



## BSCIC BARISAL



## LPG Tank Manufacturing Plant

### LPG Pressure Vessel

Production Capacity : 10 Pcs Per month

Tank Capacity: 10cbm up to 40 cbm (10,000 ltr. to 40,000 ltr.)

Type: Aboveground, Underground & Mounded

Tank Orientation: Horizontal

Standard: EN - 13445

### LPG Auto Tank

Production Capacity : 300 Pcs Per month

Tank Capacity: 30 ltr. to 140 ltr.

Type: Cylindrical & Toroidal

## LPG Road Tanker

### FEATURES



Tank Capacity: 40 cbm (40,000 ltr.)  
 Distribution Capacity: 450 cbm (4,50,000 ltr. per month)  
 Product: LPG ( Liquefied Petroleum Gas)  
 Operating Pressure: 10 bar  
 Operating Temperature: - 196 °C

## Digital Flow-meter

### Specification



ATEX and MID certification.  
 Color LCD graphic display (3.2").  
 Measurement principle: Coriolis or PD (optional).  
 Measurement range: 0... 750 kg/min.  
 Measurement accuracy:  $\pm 0.2\% \sim 0.5\%$ .  
 Minimum maintenance required.  
 Measurement of mass, volume, density and temperature simultaneously.  
 Preset Filling as amount of mass or volume.  
 Builtin Deadman button. Serial port for printers RS485 – RS232.  
 Languages: English, Italian, Russian, Turkish, Serbian and Spanish.  
 Operates at -25°C to 55°C.

## Transfer Pump

### Specification



- Brand: BlueSky ,China
- Model No: YQB - 10
- Type: Sliding Vane
- Max capacity: 10 m3/h
- Head: Max 35 bar
- Casing pressure: Max 40 bar
- Speed: Max 1440 Rev/min
- Voltage: 380-440 (50Hz)
- Working Temperature: Max 120 °C
- Working Pressure : Max. 1.8 MPa
- Motor - 4KW
- Suction flange connection: DN50, PN40
- Discharge flange connection: DN50, PN40

**LPG CONVERSION KIT ITALY**

LPG Sequential Reducer



Solenoid Valve



Zavoli Filter



Injector Rail 4 Cylinder



Multivalve



Jet Injectors



Zavoli Ecu Set



Toroidal Cylinder



Lpg Solenoid Valves



Lpg Auto Cylinder


**LPG CONVERSION KIT TURKEY**
**ALD.SK.0021**
**Product Description:**

Designed for new generation Sequential Injection motor 4 cylinders.

ALDESA LPG Full Kits provide the best solution for only changing front parts of the LPG Systems.

1,9 ohm fast injectors are available as optional.

**Box Content:**

SGI Reducer, LPG Solenoid Valve, GALAXY ECU (48 Pin), Wiring Harness, MAP Sensor, Filter, 1.9 ohm Injectors (4 Cyl), SGI Switch.


**GALAXY PLUS-Mini Kit**

4 Cylinders Sequential  
With 1.9 ohm Premium Injection

## LPG Filling Machine



## Technical parameters

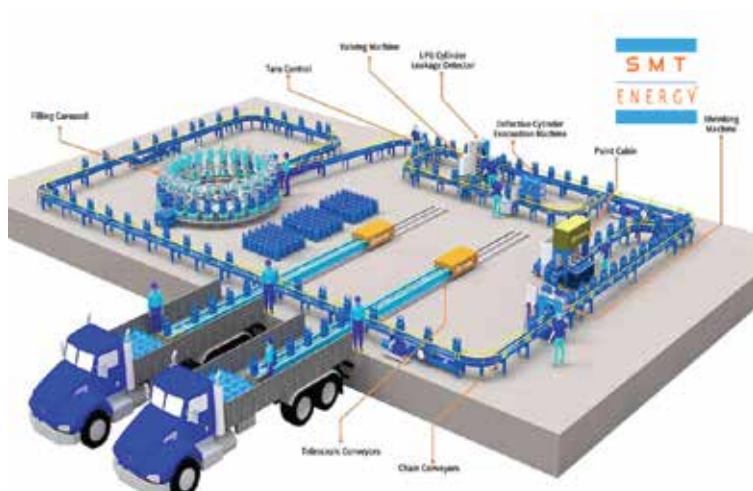
Supply voltage : AC220, 50HZ.  
 Working temperature : -10°C~40°C.  
 Filling Capacity : 10kg-50kg.  
 Level of accuracy : III.  
 Minimum weighing : 3kg.  
 Maximum weighing : 150kg.  
 Division value : 50g.  
 7-inch TFT LCD and membrane buttons.

## LPG Bottling Plant



## SPECIFICATIONS

LPG bottling plant is a plant where LPG is filled into bottles (cylinders) from storage tank to distribute among various LPG distributors. We undertake complete design, fabrication, erection, installation and commissioning of various plants on turnkey basis like as follows:



- LPG carousel system for domestic cylinders
- Chain conveyors and roller conveyor
- Evacuation Unit
- In line filling system for commercial cylinders
- High accuracy filling machine
- Mechanical Scales
- Sealing machine
- Cylinder inline washing and drying units
- Cold test repairing tools
- Hot air sealing machines

## Eco Auto Car



একজন ভোক্তা হিসেবে আধুনিক প্রযুক্তিতে একটি বৈদ্যুতিক গাড়িতে আপনার বিনিয়োগ করার বিভিন্ন কারন রয়েছে।

- ইলেকট্রিক ভেহিক্যাল সাধারণত পেট্রোল গাড়ির এর চেয়ে ব্যাটারি বেশি থাকে।
- ইলেকট্রিক ভেহিক্যাল একটি শক্তিশালী উৎস বিদ্যুৎ দিয়ে চলে যার ফলে এটি পরিবেশে বিষাক্ত গ্যাস বা ধোঁয়া নির্গত করে না।
- ইলেকট্রিক ভেহিক্যাল বায়ুদূষণ এবং শব্দ দূষণ হ্রাস করে।
- গাড়ির ভিতরে ইস্টল করা রিচার্জেবল ব্যাটারি থেকে ইলেকট্রিক ভেহিক্যালে পাওয়ার পায়।
- রিচার্জেবল ব্যাটারি শুধুমাত্র গাড়ি চালানোর জন্যই নয় বরং গাড়িতে ব্যবহৃত সময় ইলেকট্রিক ডিভাইস এই ব্যাটারির মাধ্যমে পাওয়ার পেয়ে থাকে।

## EV Dispenser



## Specification

Total capacity: 120KW+43KW

Interface: 7 inch touc screen

Communication Interface: CAN and RS485

Operating temperature: -40°C ~ +65°C

Cooling method: intelligent air cooling

Input voltage: Three Phase 380V±20%

Connector 1: DC CCS type 2 with capacity 60KW

Connector 2: DC Chademo with capacity 60KW.

Connector 3: AC type 2 with capacity 43KW.

IC card reader for payment with RFID reader

Standard wooden box package

Charger Demission: 1010\*760\*1860

Weight: 350KG

## Electric Vehicle Charging station

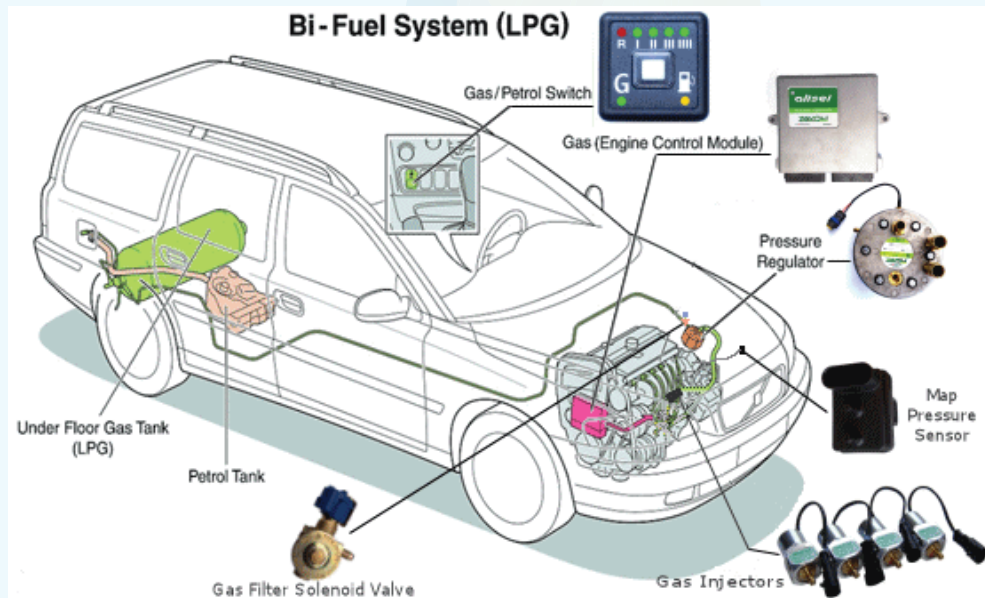


## Features

The location model of charging stations is established based on electricity consumption along the roads among cities. And a quantitative model of charging stations is presented based on the conversion of oil sales in a certain area. Both are combining the principle based on energy consuming equivalence substitution in process of replacing traditional vehicles with EVs

### এলপিগি ব্যবহারের সুবিধা!!!

- ১) একবার LPG রিফিল করে প্রায় ৪০০-৫০০ কিঃ মিঃ চালানো যায় ।
- ২) গাড়ী LPG তে কনভার্সন খরচ তুলনামূলক কম ।
- ৩) এলপিগির ট্যাংক ওজনে হালকা ।
- ৪) LPG Auto Gas Station ২৪ ঘন্টা খোলা থাকে ।
- ৫) LPG ফিলিং এর জন্য লাইন ধরার ঝামেলা নাই ।
- ৬) সারা দেশের সর্বত্র পাওয়া যায় ।
- ৭) LPG অকটেন এর মত তরল তাই গাড়ীর ইঞ্জিনের কোন ক্ষতি হয় না ।
- ৮) LPG পরিবেশ বান্ধব ।
- ৯) অকটেন ব্যবহার এর চেয়ে প্রায় ৫০% খরচ কম ।
- ১০) স্বল্প বিনিয়োগে LPG Auto Gas Station স্থাপন করা যায় ।
- ১১) LPG শেষ হয়ে গেলে কখনো ইঞ্জিন বন্ধ হবে না অটোমেটিক অকটেন অথবা পেট্রলে শিফট হবে ।





**Running Station** 350+

**Ongoing Station** 100+

**Upcoming Station** 295+



LPG Autogas Station

LPG Conversion workshop

EV Charging Station

LPG Distribution

Industrial LPG System

Domestic LPG System

Eco Auto Car

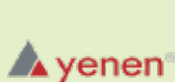
LPG Road Tanker

Fuel Station Management System

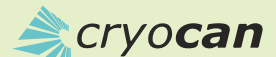
LPG Bottling Plant Equipments

## BRANCH OFFICE

Dhaka	Mymensingh
Chattogram	Rajshahi
Cumilla	Sylhet
Jashore	Rangpur
Bogura	Barisal
Khulna	Faridpur



MEPSAN



2/2, Pallabi,  
Mirpur, Dhaka-1216



+880 2 8001576



01765 038390-99,  
01708 416266  
01708 416255



smetservices



smetservices@gmail.com



www.smetservices.com

## Our Contact

### Corporate Office

#### SMET SERVICES

House No-2, Road No -2 (5th Floor), Pallabi,  
Mirpur, Dhaka-1216.  
Phone: +88 02 8001576  
Cell: 01765 038390-99  
Email: smetservices@gmail.com  
Web: www.smetservices.com

### Hotline

Sales Support : 01704 179393, 01704 179252  
Licence Support : 01704 179222, 01708 416266  
Customer Support : 01765 038391, 01765 038398  
Complaint : 01765 038390, 01765 038398  
Technical Support:  
Head Office: 01765 038393, 01765 038396

#### Dhaka Office

House No-2 (5th Floor), Road  
No -2, Pallabi, Mirpur,Dhaka-1216.  
Mobile No : 01704179352  
01765038396

#### Chattogram Office

Anowara Tower, Sobujbug,  
Halisohor Road, Ward no: 11,  
Pahar toli, Chottogram.  
Mobile No : 01704179377

#### Cumilla Office

Nir Villa, Holding no: 73/1,  
Janglaliya, Ward no: 21, Cumilla.  
Mobile No : 01704179220  
01704179212

#### Mymensingh Office

Bhuiyan LPG Filling Station,  
Joypur, Iswargonj, Mymensingh.  
Mobile No : 01704179215  
01704179277

#### Khulna/Jashore Office

Maria LPG Autogas Filling Station,  
Horintana Thana, Khulna.  
Mobile No : 01704179205  
01704179229

#### Rangpur Office

Ashraf & Sons LPG Auto gas  
Filling Station, Rangpur sadar.  
Mobile No : 01704179253,  
01704179279

#### Sylhet Office

Askor Ali Villa, Matrichaya 2,  
Pirijpur, Chondipull, Sylhet.  
Mobile No : 01704179280  
01704179214

#### Bogura/Rajshahi Office

Rahim LPG Autogas Station,  
Kahalu, Bogura.  
Mobile No : 01704179257  
01704179233

#### Barishal Office

Saad Motors Limited.  
Plot no:a-41,Bscic, Kawnia, Barishal.  
Mobile No : 01704179369  
01704179361

# SMET

## SMET SERVICES

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## Sister Concern:

