**SREELAKSHMI ENERGY SYSTEMS PVT. LTD. WEBSITE DETAILS**

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**HOME PAGE**

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**ABOUT US PAGE**

**Sreelakshmi Energy Systems Pvt. Ltd.**



We are an ISO 9001:2015 certified company established in the year 2006 engaged in the business as Consultant Engineers & Contractors for LPG & other fuel piping installations, Gas monitoring & detection systems.  
  
During these years we have been associated with all major industrial establishments, Construction and Real estate developers, IT Campuses, Hotels, Tourism & Hospitality industries, Medical & Education sector’s etc.  
  
We have made an impact by creating state of the art LPG infrastructure for Industrial, Hospitality and Residential projects with International quality standards and unmatched Customer service.  
  
We undertake projects on turn-key basis providing expert guidance on Planning, Design, Installation, Testing & Commissioning with mandatory safety and quality standards as per customer’s specific requirement.  
  
All the three public sector oil companies have approved our technical skill, expertise and installation design procedures and the customer will not face any issues related to availing LPG connections and supplies.  
  
Our installations are in conformation to Oil Industry Safety Directorate (OISD 162), IS:6044 Part I-2018 Gas cylinder rules 2004/2012, Controller of explosives (PESO), Department of Industrial Safety And Health (DISH) Factory Act Rule No.13  
  
We are the part of group having 30 years of experience in Oil & Gas retail business having a turnover of 700 millions.  
  
We have completed more than 500 Projects in Kerala during the years and many more Projects are in progress.  
  
Our infrastructure includes all Modern Machinery & Equipment’s required for Pipeline Installations, and a team of dedicated, technically & commercially experienced Executives, skilled and well experienced Technicians.  
  
Our full fledged Materials Department ensures Quality materials are used at Project sites.  
  
We impart regular training to our Workers by external agencies to keep them updated on latest installation practices, technology & machinery, Safety aspects to ensure safe working atmosphere at project sites.

## Quality Policy

We follow the guidelines as per ISO 9001-2015. Our policy has been derived to meet various Customer requirements such as,

* Designing as per mandatory specification and customer’s requirements.
* Continuous improvement in design and installation skills.
* Extending quick service at competitive price with excellent quality.
* Materials and equipment’s conforming to international standards.
* After sales service and support to ensure customer satisfaction.

## Our Mission

Provide the best service to our customers; strive to exceed customer’s needs & expectations. Establish long standing relationship with customers by providing high quality products & services at reasonable price.

## Infrastructure

Our infrastructure includes all Modern Machinery & Equipment’s required for Pipeline Installations, and a team of dedicated, technically & commercially experienced Engineers, skilled and well experienced Technicians. Our full fledged Materials Department ensures Quality materials are used at Project sites. We impart regular training to our Workers by external agencies to keep them updated on latest installation practices, technology & machinery, Safety aspects to ensure safe working atmosphere at project sites.

**SOLUTION PAGE**

* FUEL CONVERSION INTO LPG AND PNG (PROFIT CALCULATE)
* COMMERCIAL GAS PIPELINE INSTALLATION
* RETICULATED GAS SYSTEM
* GAS LEAKGE DETECTING SYSTEM AND MONITORING
* PIPED NATURAL GAS INSTALLATION (RESIDENTIAL, COMMERICIAL AND INDUSTRIAL)
* AMC AND MAINTENANCE

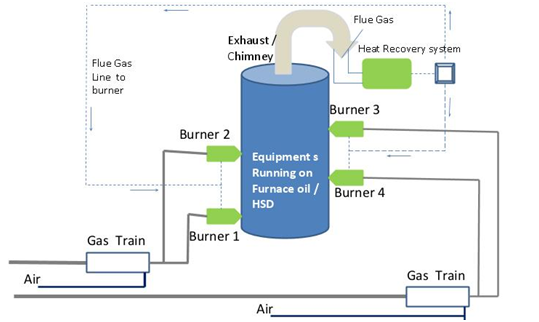
1.**FUEL CONVERSION INTO LPG AND PNG (PROFIT CALCULATE)**

To convert Furnace Oil / HSD / Coal fired furnaces, Boilers and its fuel system to LPG / Propane fired system. Our team of Engineers work in collaboration with IOCL to carry out cost benefit analysis, designing the system, obtaining statutory approvals, commissioning the system, third party inspection and provide after commissioning support to the client We have undertaken and executed around 250 such conversion projects in the past 5 years, introducing Green Engineering and also bringing about significant energy cost savings to our clients.

To convert an existing LPG appliance to run on PNG, the jet of the burner needs to be changed, which is done by trained technicians of the gas company or gas equipment supplier. After this small modification of the burner, the cooking appliance running on LPG can work on PNG, smoothly.

For this purpose LPG is supplied through a network of pipelines, from a centralized cylinder bank / manifold system or a Bulk Installation (Bullet) to run Industrial /Commercial equipment's such as, Industrial Water Heaters, Boilers, Generators, Agriculture Dyers, Paint Shop Ovens, Baking Ovens, Furnaces, Refrigeration, Air conditioning etc.

Rising costs of Furnace Oil, Diesel, Coal together coupled with handling, storage, spillage, adulteration cost is forcing progressive to companies look for alternatives, also with the environment laws becoming more stringent and consumers' increasing awareness controlling for reducing pollution, companies are now looking for green alternatives, to adopt greener technologies at reasonable cost.

* Gaseous fuel does not require any vaporization, hence no heat loss from the combustion process.
* Fuel atomization is absent with Gaseous fuel, hence efficiency improves by 5% to 8%
* Low or negligible maintenance of equipment’s. High equipment life span
* Environmentally friendly as emissions are low
* Ash content in Solid / Liquid fuels leads to low net availability of burnable fuel
* Reduces expensive electric power consumption due to low requirement of blowers etc.
* No Vaporization loss from storage tanks
* High Equipment life span. Low maintenance of equipment’s and hence lower running cost
* No spillage, theft losses or adulteration possible because of pressurized
* storage[](https://sreelakshmienergysystems.com/assets/images/services/fuel_conversion.png)
* Enhanced end product quality

**2.COMMERCIAL GAS PIPELINE INSTALLATION**

Designing, consultancy, supply, installation, testing, approvals, certification and maintenance in all types of laboratories, canteens, hotels and restaurants. We provide the equipment like manifold arrangements, shut off valves, safety relief valves, pressure gauge, regulators, filters, flame arrestors, solenoid valves, flow meters, needle valves, all type high & low pressure burners (T - type, M - type, G-type, V - type & lab burners) and all types of heating & cooking equipment’s.

##### **LOT SYSTEM (LIQUID OFF TAKE)**

**LOT system** is an advance concept in multi cylinder installations which overcomes lots of demerits of Bulk LPG system & conventional Manifold (VOT) systems. This system is widely used in commercial & industrial applications only where high pressure is required & not for domestic purpose.

##### The system broadly speaking could be divided into 4 sections.

* At the cylinder section in an LOT system as the cylinder valve is turned on, the liquid LPG is sucked in through the adapter and is passed through to the manifold. The pressure here has to be at the cylinder pressure of 5-6 bar (kg/cm2).
* The flow then enters the vapouriser section. Here as the liquid LPG travels through the vapouriser, it gets heated and starts to evaporate and form vapour. The vapour as it moves forward gets heated to the vapouriser outlet temperature. A solenoid valve is kept on vapouriser inlet to ensure that the liquid flow is stopped in case the vapouriser does not reach the set temperature.
* At the regulating section, the vapour then passes through an LPG strainer before entering a regulator in order to remove any impurities. As the vapour passes through the regulator, the pressure of the vapour reduces to set pressure of 2 bar from 5.5 bar. This can be regulated to suit customer needs.
* As the vapour moves along, it enters the outlet distribution section where it is distributed to individual outlets. The vapour may be regulated again in stages to reduce it to pressure required which could be then passed on to a burner.

##### Recommended safety systems.

* Special types of LOT valves, adaptors.
* High Grade pigtails. (HYDRAULIC PIGTAILS)
* Vapouriser.
* Gas leak detection system and solenoid cut off system.

##### **VOT SYSTEM (VAPOUR OFF TAKE)**

It is the most common type of installation used mostly in single LPG cylinders with a maximum LPG off-take of less than 60Kg per hour. Because of its design and working principle, this type of installation is advised only to consumers with comparatively low LPG usage.

##### **The system broadly speaking could be divided into 4 sections.**

* In the **cylinder section** the LPG in the cylinder vapourises and is carried into the manifold by means of an adaptor and an LPG hose. The manifold then is taken to a location where the manifolds of both active and standby cylinder banks meet. Here the pressure is kept maintained at cylinder pressure of 5 bar (kg/cm2 ).
* From this line the vapour is taken to a regulator where the pressure is reduced to 2.5 bar from 5 bar which acts as the **first stage regulation**. This can be regulated to suit the customer needs. It can be seen that the regulators shall always be preceded by a strainer so as to reduce the chance of particulates entering the flow and causing damages.
* The vapour then passes through an LPG strainer before entering a **second stage regulation** which regulates the pressure of the vapour. This can be regulated to suit customer needs. The station also includes 2 pressure gauges, one each at inlet and outlet of the regulator.
* As the vapour moves along, it enters the **outlet distribution section** where it is distributed to individual outlets. The vapour may be regulated again in stages to reduce it to pressure required. This could be then passed on to a burner. This then passed through the LPG meter that provides the consumer with the measurement of LPG consumed.

##### **Recommended safety systems**.

* Non Return valves and flame arrestors.
* Standard quality isolation valves.
* Auto change over system and two pressure reducing stations (PRS).
* Gas leak detection system.

**3. RETICULATED GAS SYSTEM**

Reticulated system is a method of distribution of Domestic LPG in housing colonies and apartments complexes through a pipeline network from a centralized cylinder bank of bulk storage to customer’s kitchen . The concept of the LPG Reticulated System is the best alternative to the conventional LPG cylinder distribution system and with the overall de- mand for LPG increasing in the domestic and commercial sectors, causing an increased demand on the bottled LPG cylinders; reticulated LPG supply system stands to have numerous advantages.

**4.GAS LEAKGE DETECTING SYSTEM AND MONITORING**

Leak Detection System is mandatory in LPG Cylinder Banks as per the amended IS 6044 Part 1 2018 Revision. Gas detection Systems are used for detecting leakage of excess of that particular product in the specified area of the atmosphere where sensors are installed. This Micro Process based control panel and sensor module provide timely details of any activation at 3 different threshold levels/it may vary as per different Manufacturers.

Detection systems are available for gases like **LPG (Butane / Propane), Natural Gas, Ammonia (NH3), Acetylene (C2H2), Carbon Monoxide (CO), and Hydrogen (H2) (please refer to Retail Sales Product)**. The sensors must be calibrated regularly using known gas samples, representative of the gas being detected. Ideally sensors have to be calibrated every 12-18 months to provide precision in sensing

##### **There are different manufacturers depending on design requirement. The LPG Leak detection sensors are of three types:-**

**1.Standalone Sensor** – This is a plug-in type of sensor. The alarm is placed inside the domestic kitchen. The product gives 1 year warranty. It may also connect with solenoid valve so in case of any LPG leakage it allows to cut the Gas flow.

**2.Addressable Centralised System** – In this type of sensors, armoured wires are run along to the location where the panels are placed (security/caretaker cabin). The alarm and hazard lights are placed in the control panel. Apartment numbers/Sensor Number will be informed in the panel. The control panel also provides additional data monitoring and management by making itself compatible with devices like BMS or other security management devices. The Sensor can be FLP or WP enclosure as per the design demands.

3.**Analogue Sensor System** – This is a simplified system, the important is too active alarms when gas concentrations approach dangerous levels. There is a single level of alarm at 10%LEL (Lower Explosion Limit). This system is mainly used in Gas bank.

**5.PIPED NATURAL GAS INSTALLATION (RESIDENTIAL, COMMERICIAL AND INDUSTRIAL)**

Natural gas, the cleanest-burning hydrocarbon, is a major source of energy. LNG is a clear, colorless and non-toxic liquid which forms when natural gas is cooled to -162ºC (-260ºF). The cooling process shrinks the volume of the gas 600 times, making it easier and safer to store and ship. In its liquid state, LNG will not ignite.

When LNG reaches its destination, it is turned back into a gas at regasification plants. It is then piped to homes, businesses and industries where it is burnt for heat or to generate electricity. LNG is now also emerging as a cost-competitive and cleaner fuel, especially for shipping heavy-duty road transport.

Piped Natural gas (PNG) is used for Domestic, Commercial and Industrial Consumption. PNG has several distinctions to its credit-of being a pollution free fuel, economical and safer fuel being few of them.

#### **City Gas Distribution Project**

The Indian Oil Corporation and Adani Gas Pvt. Ltd. (IOAGPL) have formed a joint venture to initiate Piped Natural Gas (PNG) supply directly to domestic and commercial consumers. The project aims to provide safe, convenient, reliable and environment friendly fuel to consumers in various cities across India. The city gas distribution project consists of a system of underground pipeline networks carrying PNG across a city. Sreelakshmi Energy Systems Pvt. Ltd has been appointed as one of the contractors by IOAGPL to carry out Piped Natural Gas Distribution in the city of Ernakulam. The first phase of the project has already begun and is expecting to cover over 1000 consumers in the domestic and commercial sector.

**6.AMC AND MAINTENNANCE**

Sreelakshmi Energy System is popular in after sales maintenance. We are maintaining a separate department and infrastructure for AMC and after warranty Maintenance. We are covering more than 50 AMC Projects.

As per IS: 6044 Part I- 2018 standards the following inspections to be carried out in LPG Installations

* All the manifold installations shall be checked once in six months by the approved agency or the LPG distributing company and record maintained at the installation location.
* The Installation shall be checked once in a year by the sales officer of the gas supplying company or by their authorized third party inspection agency.
* The area of LOT Installation should be free of any uncontrolled weed growth and accumulation of waste products.
* Regulator settings will be checked as per the standards.

#### **We provide 2 types of maintenance plan**

##### **Annual Maintenance Contract**

It is a maintenance plan in which the servicing and maintenance of LPG Pipeline is carried out in a periodic manner.

##### **Package:-**

* Checking of cylinder rooms, regulating station, common area and kitchen (Reticulated Installations).
* Checking of Gas Rooms, regulating station, cleaning and servicing of LPG Pots, Filters and Vapouriers (Commercial/Industrial Installations).
* In case of any emergencies our team will attend to all breakdowns within 24 working hours during the contract period.
* The Labour charges will be free of cost during the AMC Period.
* General inspection and replacement of signage boards will be carried out during this contract.
* Special Discount will be provided for materials (in case of any defects) during this contract period.
* Service within 24 working hour during the contract period

##### **AMC Exclusions:-**

* Alteration or changes to existing system, extension of copper in individual kitchen shall not be covered during this contract
* Any replacement or alteration work to existing system during the AMC period will be done at extra cost and labour.
* Damage or defects resulting from accident, negligence, mis-handling, attempted repairs will not be covered under the AMC Contract.

##### **One Time Inspection**

It is a maintenance plan in which the servicing and maintenance of LPG Pipeline is carried out once as per the customer needs. The visit may extend to 2 to 3 days depending on the site conditions.

##### **Package:-**

* Checking of cylinder rooms, regulating station, common area and kitchen (Reticulated Installations).
* Checking of Gas Rooms, regulating station, cleaning and servicing of LPG Pots, Filters and Vapouriers (Commercial/Industrial Installations).

##### **Exclusions:-**

* Alteration or changes to existing system, extension of copper in individual kitchen shall not be covered and shall be done only after issue of Quotation and acceptance of Work order. Labour charges will be applicable.
* Damage or defects resulting from accident, negligence, mis-handling, attempted repairs will not be covered under the inspection.

**CONTACT US**

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