

# SGS CONSTRUCTION OF POLYETHYLENE NATURAL GAS DISTRIBUTION PIPELINE IN INDIA

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SGS provides independent inspection, testing, commissioning and certification services for the construction of a polyethylene (PE) gas distribution pipeline in Surat, India.

In April 2013, one of the most distinguished suppliers among the largest in the transmission and distribution of natural gas in India contracted SGS to provide independent inspection, testing, commissioning and certification services for the construction of a polyethylene (PE) pipeline in Surat. This esteemed partner is a pioneer in the

distribution of natural gas to industrial, commercial and private consumers. More than three million customers receive gas from this reliable supplier serving over one million compressed natural gas users.

### PLASTIC PIPELINE

Polyethylene (PE) pipes have been used to transport gas for over forty years. Over 50 percent of natural gas distribution pipelines in the United States and Canada today are made of plastic, almost all of which are made up of polyethylene. PE pipes can be found all over the world substantially reducing

costs and drastically shortening time spent for project construction.

Advantages of PE pipeline include:

- stronger connections
- more flexibility
- easier installation
- corrosion and chemical resistance
- higher-level of durability
- longer life expectancy

### SGS EXPERTISE IN INDIA

Since March of 2007, SGS has provided inspection services for pipeline construction activities in India under ASME B 31.8 and the requirements as stipulated by the Indian Petroleum and Natural Gas Regulation Board (PNGRB).

SGS was hand-picked to assist in the Surat project based upon its past experience in the inspection of similar natural gas pipeline and its registration with PNGRB. SGS assigned inspection engineers and technical support to ensure the highest quality and meet project deadlines.

Named nominated dedicated manager of the project in Surat, SGS once again provided this distinguished client with day to day progress reporting, regularly met with client representatives to address and solve problems and responsibly enforced PNGRB guidelines with all hired contractors.





Twenty-eight SGS deputy mechanical engineers provided independent on-site inspection services throughout the construction period. In addition, these experts conducted testing, oversaw commissioning and issued certification for the PE pipeline project.

#### **COMMISSIONING AND MANAGEMENT FOR INDIAN PIPELINE**

During the construction phase of the Indian project, it was imperative to maintain tight control over the quality of all produced materials and services. It was equally crucial to assess environmental and site conditions in order to avoid costly errors which might have jeopardised operations.

SGS commissioning services and project management specialists respectively assured clients that equipment and components had been assembled according to client-defined specifications and that all geotechnical risks were managed effectively.

An unparalleled network of SGS experts worked as a team to provide the most comprehensive solutions to Surat project challenges, protecting the overall integrity of the project to support smooth and reliable operations.

#### **SGS QUALITY ASSURANCE IN SURAT**

During the Surat natural gas PE pipeline project, the quality of all equipment, materials, structures and components utilised in the construction, manufacturing and operation of the pipeline were subjected to strict regulations and standards. SGS quality assurance and quality control services ensured compliance with all contractual specifications, mandatory regulations and quality standards affecting the project.

Implementing independent examination, audits, inspections and witnessing, experienced SGS inspectors verified all materials, parts and final products used in this project. All inspections were carried out according to the approved Quality Assurance Plan and PNGRB guidelines.

#### **NATURAL GAS ON THE RISE IN INDIA**

Increased availability and the related pipeline infrastructure, has made natural gas the most sought after fuel in India. Investment in natural gas distribution projects is on the rise. Authorities estimate that as many as 150 Indian cities will be connected to the gas pipeline network within the next five years and that number will rise to 250 cities in ten years.

SGS is extremely pleased to have once again assisted this valued partner.

#### **CONTACT**

**INDUSTRIAL.GLOBAL@SGS.COM**  
**WWW.SGS.COM/OIL-GAS**

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