What Is the Pipeline integrity Management system (PIMS)

Every natural gas/city gas distributor pipeline operator's primary focus shall be on operation and maintenance of natural gas pipeline in such a way that it would continuously provide un-interrupted services to customers with utmost reliability and safety without any untoward incident which can adversely impact the environment. A pipeline Integrity Management System shall provide a comprehensive and structured framework for assessment of pipeline condition, likely threats, risks assessment and mitigation actions to ensure safe and incident free operation of the pipeline system.

Comprehensive integrity management system

**Integrity Management Plan (IMP):** This encompasses collection and validation of data, assessment of spectrum of risks, risk ranking, assessment of integrity with respect to risks, risks mitigation, updation of data and reassessment of risk.

**Performance evaluation of IMP:** This is a mechanism to monitor the effectiveness of integrity management plan adopted and for further improvement.

**Communication Plan:** This covers a structured plan to regulate information and data exchange within and amongst the internal and external environment.

**Management of Change:** This is the process to incorporate the system changes (technical, physical, procedural and organization changes) into integrity management plan to update the integrity management plan.

**Quality Control:** This is the process to establish the requirements of quality in execution of the processes defined in the integrity management plan.

Why Required Integrity Management System

Pipeline Integrity Management System for Natural gas and City gas distribution pipelines is requirement of PNGRB Notification:

F. No. Infra/IM/NGPL/12010. These regulations may be called the Petroleum and Natural Gas Regulatory Board (Integrity Management System for Natural gas pipelines) Regulations, 2012.

F No. INFRA/IMP/CGD/1/2013: These regulations may be called the Petroleum and Natural Gas Regulatory Board (Integrity management system for City or local Gas distribution Network) regulation 2013.