

TECHNICAL STANDARDS AND SPECIFICATIONS INCLUDING SAFETY STANDARDS (T4S) AUDIT

What is T4S

T4S Means Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Networks & Natural Gas pipelines. This standard is issued by the Petroleum Natural Gas Regulatory Board for assessment safety & conform the technical requirement of gas installation.

Why T4S audit required.

All the natural gas transportation & city gas distribution entities over the country is Mandatory requirement to carryout the T4S audit as per Petroleum and Natural Gas Regulatory Board Act, 2006

- ❖ **G.S.R. 808(E).-**) These regulations may be called the Petroleum and Natural Gas Regulatory Board (Technical Standards and Specifications including Safety Standards for Natural Gas Pipelines) Regulations, 2009
- ❖ **G.S.R. 612(E).**-These regulations may be called the Petroleum and Natural Gas Regulatory Board (Technical Standards and Specifications including Safety Standards for City or Local Natural Gas Distribution Networks) Regulations, 2008.

There shall be a system for ensuring compliance to the provision of these regulations through conduct of technical and safety audits during the construction, commissioning and operation phase, as well as on an on-going basis as may be specified from time to time.





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What is scope of T4S audit

- ❖ Design verification of installation (city Gas station, all pipelines, DRS, MRS, CNG station, Pumping station, compressor station, control room, pig launcher, receiver, distribution mains and piping facilities downstream of inlet isolation valve of city gate station)
- ❖ Verification of Materials and equipment,
- ❖ Review of welding, fabrication, installation, testing procedures & record
- ❖ Verification of operation and maintenance and corrosion control system
- ❖ Verification of commissioning, operation & maintenance procedures & records.
- ❖ Verification of NDT record of welding joints.
- ❖ Verification of hydro test record as per notification requirement.
- ❖ Verification of availability of safety equipment as per notification.
- ❖ Verification of SCAD system
- ❖ Verification of Health monitoring system for CGD network & natural gas pipeline network.
- ❖ Verification of safety provided for operation and maintenance of CGD network
- ❖ Verification of safety provided for operation and maintenance of natural gas pipeline
- ❖ Verification of layout as per notification requirement.
- ❖ Verification of statutory compliances.
- ❖ Verification of crossing records.

Who has approved ICS for conducting T4S audit ?

- ❖ Conformity Assessment Body as per ISO/IEC 17020 –Certified by NABCB
- ❖ Petroleum and Natural Gas Regulatory Board (PNGRB)
- ❖ Quality Council of India (QCI)

ICS ensures improvement of quality, minimization of loss and damage to life, property and environment to the public, government and industry.

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Are you Looking for the Technical Standards and Specifications including Safety Standards (T4S)

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