



IS 1726:1991 - CAST IRON MANHOLE COVERS AND FRAMES

Manhole covers and frames are essential components of underground infrastructure systems. They are made from various materials such as cast iron, ductile iron, concrete and also composite materials. They provide access to underground utilities such as sewers, water pipes, electrical cables, and telecommunication lines. Manholes are essential components of underground infrastructure, but they can pose significant safety risks if not properly designed and maintained.

Manhole covers and frames are essential components in various infrastructure projects, including:

- **Drainage systems:** For accessing and maintaining underground drainage networks.
- **Sewage systems:** For inspection and cleaning of sewer lines.
- **Telecommunication networks:** For accessing underground cables and equipment.

Cast iron has been a traditional choice for manhole covers due to its strength, durability, and resistance to heavy loads. Cast iron is highly resistant to wear and tear, making it suitable for heavy-duty applications. It is resistant to corrosion, making it suitable for outdoor use in various weather conditions and its weight helps prevent unwanted displacement. The ability of cast iron to meet these prominent public interests often make it a preferred material for manhole covers and frames.

This Indian Standard specifies the quality requirements covering the materials to be used for manufacturing the product, standardised dimensions required for various sizes of manhole covers, load bearing capacity, surface finish etc. and has incorporated various tests to assess these parameters to ensure strength/durability of product as well as public safety.