

## SYNOPSIS OF INDIAN STANDARD

IS 17057 : 2019

### CONSTRUCTION OF BULL'S TRENCH BRICK KILN — GUIDELINES

This standard gives the general guidelines related to the construction of Bulls Trench Brick Kiln with fixed chimney and gravitational settling chamber for the firing of bricks.

Different types of kilns are being used for firing bricks. These kilns vary considerably in design, capacity and output. It is not infrequent to find two kilns of identical design located at the same place and yet producing bricks varying widely in quality. It has been found desirable that some degree of uniformity should be introduced in the design of kilns, so as to ensure the production of good quality bricks consistently with the minimum consumption of fuel. Works carried out by the CSIR-Central Building Research Institute, Roorkee and Punjab State Council for Science and Technology, Chandigarh and the information gathered from various manufacturers from various parts of the country, indicate that a broad outline can be furnished as a general guidance for their better performance.

The pollution caused by the brick kilns has drawn the attention of the Government and has resulted in many notifications on the subject, specifying the ceiling on the particulate matter concentrations emitted by brick kilns. This standard has been formulated in line with the various notifications and orders issued till date.

IS 4805 : 1978 'Guide for construction of Brick Kiln (first revision)', which covered the broad guidelines for the construction of Bulls trench brick kilns with moving chimneys, was withdrawn, as the usage of moving chimneys in brick kilns were dispensed with by Government of India. This prompted the formulation of a new standard that covers the general guidelines for the construction of Bulls trench brick kilns with fixed chimney. This standard is being formulated to provide necessary guidance regarding construction of energy efficient bulls trench brick kiln with fixed chimney to the manufacturers and users of these brick kilns.