

# **DESIGN AND DEVELOPMENT OF INFRA RED HEATING PANELS FOR SURFACE SPREAD OF FLAME TEST APPARATUS.**

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## **Abstract**

Combustible lining materials once ignited can support spread of flame across their surfaces thereby allowing fire to travel to locations which are at a distance from the initial outbreak. The surface spread of flame evaluation is a means of assessing this tendency and classifying these materials on the basis of the rate and distance of spread of flame over their surfaces. The evaluation details specified in BS: 476 Part-7 is adopted for determining surface spread of flame.

The surface spread of test apparatus is a very significant apparatus for our "Reaction to fire lab" and also National Building Code 2016 recommends the use of only class one lining materials in buildings. In this OLP-2307 we are creating a new surface spread of test apparatus as per BS-476-7.

## **Objectives**

- Design and Development of Infrared radiation panels for building materials evaluation
- Integration of Gas manifold system with the IR panels
- Development of Surface Spread of Flame (SSF) test apparatus as per BS 476 part 7