

(PREVIEW)

IS : 5510 - 1969

Indian Standard

GUIDE FOR SOIL SURVEYS FOR RIVER VALLEY PROJECTS

1 SCOPE

This standard lays down the guidelines for carrying out soil surveys for river valley projects.

FORWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 2 December 1969, after the draft finalized by the Preliminary Investigation and Collection of Data Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 Soils differ widely from place to place. Soil surveys are, therefore, carried out to determine the nature, distribution and extent of different soils existing in various regions. Since the type of cultivation and the management practices for efficient agriculture depend on the nature of the soil and in order to cultivate scientifically, it is essential to determine various factors, such as the nature of the soil with respect to its moisture retentivity, requirement of water and fertilizers and type of crop most suitable for a particular soil.

0.3 Properties of soil may change after the introduction of an irrigation system in the region due to the development of salinity, alkalinity, water logging, etc..An exhaustive soil survey should, therefore, be conducted during the planning stage of a river valley project with particular emphasis to the suitability of soils for irrigation, reclamation, drainage and also in command areas where water is to be used for irrigation after impounding in a reservoir or running a canal.