

Indian Standard
GUIDE FOR
EVALUATION OF SOIL PROPERTIES
RELEVANT TO IRRIGATION

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standard Institution on 25 October 1982, after the draft finalized by the Water Requirements for Crops Sectional Committee had been approved by the Agricultural and Food Products Division Council.

0.2 Irrigation water plays a vital role in many soil process. The manner in which water is distributed within the soil mass depends to a considerable extent on the individual soil properties.

0.3 In rating land for irrigation (agriculture), first attention should be given to physical condition which make the land adoptable to careful control of moisture. Freedom from undesirable chemical characteristics receives second consideration and third, the soil properties which effect the inherent productivity are to be considered.

0.4 It is hoped that this guide would help in deciding the method of irrigation, suitable crops for the area in relation to efficient utilization of water. This would also be useful to planners in selecting site for irrigation projects.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard gives guidelines for evaluation of soil properties in relation to irrigation.