

Indian Standard

GUIDE FOR PLANNING AND LAYOUT OF CANAL SYSTEM FOR IRRIGATION

(*First Revision*)

1 SCOPE

1.1 This standard covers planning and layout of canal system for irrigation.

NOTE - This standard does not cover power canals, navigation canals and the lift stage of a proposed canal system.

FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 30 January 1987, after the draft finalized by the Irrigation Canals and Canal Linings Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 The planning and layout of a canal system is controlled by the area to be irrigated and the source of supply. The layout of main canals and branches is generally fixed on the consideration of economy. For the layout of distributaries and minors, points of off take may be suitably selected but their layout is more or less governed by the blocks of areas to be irrigated taking into consideration the watersheds and drainages. The main canals and branches are feeder channels for distributaries and generally no irrigation is done directly from them. Irrigation outlets are provided on distributaries or minors offcaking from distributaries.

0.2.1 The stage for general planning and layout of canal system arises after the general feasibility of the project has been established.

0.3 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.

0.4 This standard was first published in 1970. This revision has been prepared in the light of experience gained in the usage of the standard during course of these years. In this revision a number of changes have been made; the prominent among which are:

- a) Addition of radii of curves for lined canals with low discharges.
- b) Revision of proforma for capacity of statement of a canal.

*Rules for rounding off numerical values (revised).