

(PREVIEW)

IS : 7880 – 1975

Indian Standard

CRITERIA FOR HYDRAULIC DESIGN OF SKIMMING PLATFORM FOR SEDIMENT CONTROL IN OFFTAKING CANAL

1. SCOPE

1.1 This standard covers the criteria for hydraulic design of skimming platform for sediment control in offtaking canals by minimizing the entry of coarser sediment into the offtake by provision of sediment excluders.

FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 25 November 1975, after the draft finalized by the Canals and Canal Linings Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 The total sediment load carried by any flow can be divided into two parts, rolling material, that is, the load consisting of particles essentially in contact with bed; and the suspended material, that is, the suspended load comprising the particles in suspension. The concentration of sediment in suspension is greater near the bed than towards the top and the suspended sediment particles near the bottom are coarser than those in upper layers. Preventing the entry of this coarser bed sediment and restricting the quantity of sediment according to the carrying capacity of the offtake canals are the principal aims of all sediment control measures. This can be achieved by (a) minimizing the entry of coarser sediment into the offtake by provision of sediment excluders, and (b) removing the sediment that has entered the drain by sediment ejectors.