

(PREVIEW)

Indian Standard
**REQUIREMENTS FOR
SETTLING TANK (CLARIFIER EQUIPMENT)
FOR WATER TREATMENT PLANT**

FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 September 1982, after the draft finalized by the Public Health Engineering Equipment Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 Settling tanks (sedimentation tanks, sedimentation basins of clarifiers) are used in water treatment to reduce the amount of settleable solids which are present in water.

0.2.1 Sedimentation usually finds application in two principal ways in water treatment, that is, plain sedimentation and sedimentation following coagulation, flocculation or softening. Plain sedimentation is used to remove settleable solids that occur naturally in surface waters. These solids settle without any previous treatment. Plain sedimentation is usually used as a preliminary process to reduce heavy sediments prior to subsequent treatment process such as coagulation. This is often referred to as pre-sedimentation or primary clarification.

0.2.2 Sedimentation following chemical coagulation and flocculation is used to remove suspended solids that have been rendered settleable by chemical treatment.

1. SCOPE

1.1 This standard covers requirements for settling tank (clarifier equipment) for water treatment plant.