

(PREVIEW)

IS : 11293 ( Part 1 ) – 1981

## *Indian Standard*

# GUIDELINES FOR THE DESIGN OF GROUT CURTAINS

## PART 1 EARTH AND ROCKFILL DAMS

### 1. SCOPE

**1.1** This standard covers the design of grout curtains in alluvium and rock when used as principal measure of seepage control.

### FOREWORD

**0.1** This Indian Standard (Part 1) was adopted by the Indian Standards Institution on 26 February 1985, after the draft finalized by the Foundation and Substructure Sectional Committee had been approved by the Civil Engineering Division Council.

**0.2** There are various measures for seepage control which are given in IS : 8414-1977\*; one of which is grout curtain. This standard covers the design of grout curtain for earth and rockfill dams.

**0.3** Design requirements for a grout curtain depend on its function, for example, when the grout curtain is designed to function as the principal measure of seepage control and it constitutes the main seepage barrier, it shall be of adequate depth and width and the permeability within the grouted zone shall be reduced to acceptable limits. On the other hand the grout curtain may be considered as a complementary measure of other seepage control measures. In such cases the curtain is essentially an exploratory line of closely spaced holes aimed at sealing the wider and more open cracks and voids so that the efficacy of the system is not impaired by excessive concentrated seepage along the major cracks joints and voids. The method of grouting is covered in IS : 6-66.1985†.

**0.4** This standard is being prepared in two parts; Part 2 covering masonry and concrete dams is under preparation.