

RIVER TRAINING WORKS USING GEOTEXTILES

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ABSTRACT

In this project the use of geotextiles in river training works is dealt with. The objectives are ; first to outline the use of geotextiles in river training works. Secondly, to clearly define the geotextile; its definition, functions as well as its properties. Thirdly, to explain the concept of river training works. Fourthly, to discuss and provide the design, construction and maintenance criteria required and lastly to provide a case study of river training works using geotextiles. Emphasis is placed on the design, construction and maintenance criteria only.

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1.0 INTRODUCTION

River training work have been, and still remain, the most important measure for protecting mankind from floods and promoting social and economic development in countries all over the world.

The expression 'river training' in its broader sense implies any construction provided on river to direct flow including floods, to train and regulate the river bed or to increase the river depth.

Traditionally, all these construction have been made with natural materials such as stone, sand, clay, natural fibres, etc.

In recent decades, however, river training works have become more expensive, because of high cost and shortage of natural materials in some region; have resulted in high construction and maintenance costs of a river.

To solve these problems, it is required to find cheap and suitable materials. With the invention of geotextiles, the possibilities for finding solution have been broadened.