

## POND LINING WORKS AT LANJHA RATNAGIRI, MAHARASHTRA, INDIA

### Waterproofing of Reservoirs, Lakes and Channels

#### Problem

Lanja is a taluka located in Ratnagiri district of Maharashtra. The basic occupation of the people is farming, which requires a lot of water. Water losses from the pond due to seepage is a major threat for the farmers. Therefore, the client needed a solution to avoid seepage and to be able to store water for an extended period of time.

#### Solution

Considering water seepage and storage problems, an impermeable lining of the pond was the ideal solution.

The side slopes of the pond were dressed in a stable inclination of 1V : 1H with a horizontal beam in-between. The slope as well as the bed of the pond was lined with a geosynthetic solution. A 1mm thick geomembrane MacLine® (SDH) acted as an impermeable liner.

The MacLine® was lined on a protective layer of non woven geotextile, MacTex®. To ensure the stability of liners, safe anchoring was done at the top by providing anchor trenches.

#### Advantages :

- Easy handling and installation.
- Quality assurance and uniformity.
- Cost effective.

**Client:** M/S SHIVALAYA FARMS

**Designer / Consultant:** MACCAFERRI

**Contractor:** MACCAFERRI

#### Products used (Qty.)

- MacLine Smooth	14960 sqm
- MacTex N	14214.04 sqm

**Date of construction:** 03/2011 - 04/2011



Photo-1: Site before installation



Photo 2: Site during installation



Photo 3 : Site after installation



Photo 4 : Site after installation