



## Waterproofing Of Underground RCC Structure

<b>Region</b>	Andaman Islands (India)
<b>Type</b>	Underground Specialized RCC Integrated Structure
<b>Main Contractor</b>	Larsen & Toubro Limited
<b>Execution of the work</b>	Renesco India Private Limited
<b>Construction Period</b>	2017– 2021

## Project Description

The project is in the vicinity of Andaman sea and therefore an extremely effective pressure waterproofing system i.e submarine system of waterproofing has to be applied, using PVC membrane of 2.0 mm thick, on the underground RCC structures including underground tanks. Formation of compartments of size 100-150 sqm with PVC waterbar/ PVC tape, to localise any defect or damage in future due to any reason. Each compartment is fitted with five pcs of injection flanges for the purpose of grouting as second line of defence if any damage occurs in future due to any reason. the system will prevent entry of water into the structure from outside surroundings and will facilitate a bone dry structure inside against presssurised ground water condition.

## Scope of work

Supply and apply of following itmes for around 20,000 Sqm surface area of the structures

- PVC membrane 2mm thick with signal layer
- Non-woven Polypropylene based Geotextile with minimum weight of 300g/m2.
- Waterbar 280 mm wide with four anchors 30mm height to form compartments and seal construction joints
- PVC termination tape 220 mm wide to form compartments and seal construction joints
- P.E Sheet 300 micron sliding layer
- High strength XPS board 25mm thick for protection layer
- Injection flanges
- **System installed as per DVS 2212 guidelines by trained and certified PVC welders.**

