



Waterproofing Of Underground RCC Structure

Region	Meghalaya (India)
Type	Underground Specialized RCC Integrated Structure
Main Contractor	Larsen & Toubro Limited
Execution of the work	Renesco India Private Limited
Construction Period	2017– 2021

Project Description

Pressure waterproofing system also known as submarine system of waterproofing has to be applied, using PVC membrane of 2.0 mm thick, on the underground RCC structures. Formation of compartments of size 100-150 sqm has to be made using PVC waterbar/PVC tape. 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 pressurised ground water condition.

Scope of work

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

- PVC membrane 2.0 mm thick with signal layer
- Non-woven Polypropylene based Geotextile with minimum weight of 300g/m².
- Waterbar 280mm wide with four anchors 30mm height to form compartments and seal construction joints
- PVC termination tape 220mm 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.**

