



Waterproofing Of Underground RCC Structure

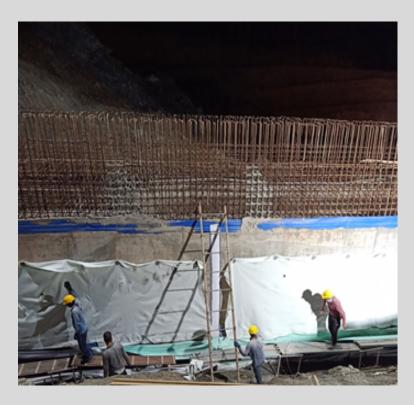
Region Type Main Contractor Execution of the work Construction Period Haryana (India) Underground Specialized RCC Integrated Structure Larsen & Toubro Limited Renesco India Private Limited 2017–2021

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Project Description

The crucial factor about this project is it's ground water level that makes the project a difficult job therefore effective an submarine waterproofing system has to be installed, with careful supervision. Submarine system or pressure waterproofing system is used with PVC membrane of 2.0 mm thickness, on the underground RCC structures including underground tanks, formation of compartments using with the PVC waterbar/PVC tape of size 100-150 sqm. 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 outside structure from surroundings and bone dry structure inside will facilitate a 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 2.0 mm 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 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.

