



Tunnel Waterproofing with PVC Membrane

Region	Rajsthan (India)
Type	Tunnel waterproofing
Main Contractor	Dilip Buildcon Limited
Execution of the work	Valplast Technologies Pvt Ltd
Construction Period	2023-2024

Project Description

Waterproofing for the project involving the construction of an eight-lane access-controlled expressway, commencing near the junction with NH-12 near Ummedpura village and extending to the major bridge over the Takli River near Nayagaon Jageer village (from ch. 419.000 to 427.300) within the Delhi – Vadodara Greenfield alignment (NH-148N) under the Bharatmala Pariyojana in the state of Rajasthan is of utmost importance.

In this context, the application of a pressure release waterproofing system on the tunnel's surface is a key requirement. This system employs a 2mm thick PVC membrane as the primary waterproofing component. Within the pressure release waterproofing system, the installation of drainage is a critical and integral component that must be incorporated alongside the waterproofing membrane

Scope of work

Supply and installation of following items for around 100000 Sqm surface area of the tunnel

- PVC membrane 2mm thick with signal layer
 - Protective felt of 500 gsm
 - Dimpled membrane 750 gsm
 - 500mm of wide strip of mechanical protection sheet at block joint
-
- **System installed as per DVS 2212 guidelines by trained and certified PVC welders.**

