

## Project Info



May 2018



CC5™



250m<sup>2</sup>



Transversal Layer



Kaunpui, Mizoram



NFR- SSNR Const.



Channel formation to divert leakages from tunnel top

The construction of railway tunnel work near Kaunpui village, Mizoram was in progress under NFR via SSNR Construction company. The client approach to us for leakage protection work of tunnel from rooftop due to which mud was created in formation level of railway track. The pain point observed a top that many natural springs were passing above the tunnel which seeps through top soil and concrete construction joints. We decided to divert the water safely towards other outlet and all tunnel area to be covered with Concrete canvas from top only.

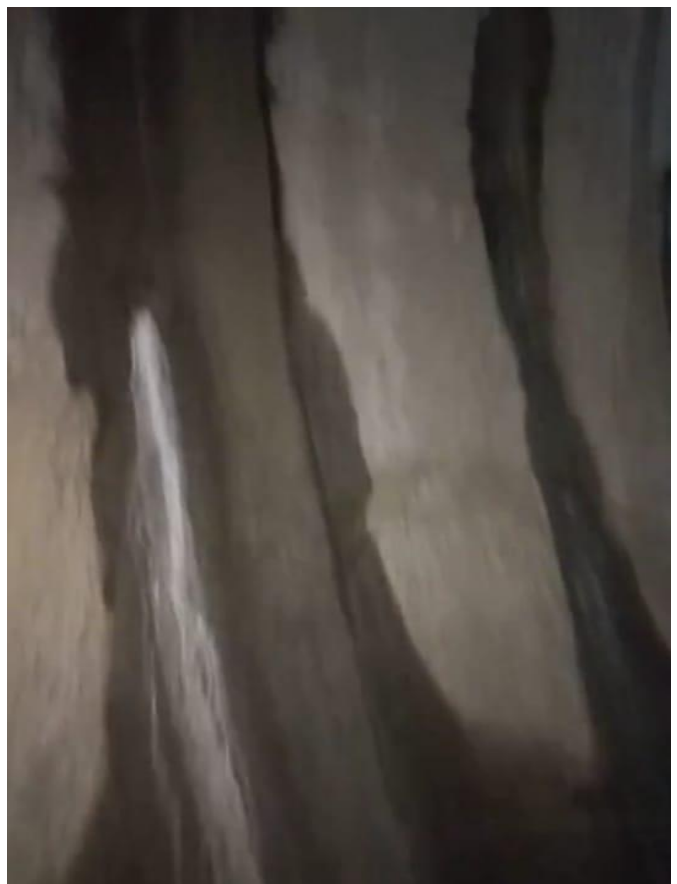
Concrete Canvas, once hardened will become waterproof, durable, strong & weed suppressor layer. Concrete Canvas 5mm thick was used to cover the area of 25m x 8m with some extra layers and overlaps. Entire area was clean to maintain proper flow of water. Pipes were fixed in heightened soil level to pass over CC installation. CC can not be overhydrated and can work underwater too. Also, CC has excellent ground movement behavior to ensure proper contact between soil and pvc layer of CC.

Total work 250sqm completed in 10days with heavy rains during installation days.





*Leakages from top & side walls*



*Leakages from top & side walls*



SHOT ON VIVO MIDDAL CAMERA

Upper portion of tunnel



SHOT ON VIVO MIDDAL CAMERA

Upper portion of tunnel



Cleaning of mud



Fixing of piper inside soil to divert water on CC



Laying of first patches



Laying and Joining of first 5m portion



Front view: Laying and Joining of first 5m portion



SHOT ON MI A1  
MI DUAL CAMERA

2018/5/9 13:15  
**Screwing work on overlaps**



SHOT ON MI A1  
MI DUAL CAMERA

**Sealanting work on overlaps**



SHOT ON MI A1  
MI DUAL CAMERA

**Completed installation**



*Completed installation after cleaning of site*



*No leakages inside the tunnel*



*No leakages inside the tunnel*