CONCRETE CANVAS

SLOPE EROSION PROTECTION



The work was allotted by Dy. Chief Engineer, Cons-IV/Howrah to control the erosion problem in embankment. Location was allotted at Km 1/7-9 in Ahmadpur – Katwa station in connection with Ahmadpur – Katwa guage conversion project.

The soil on embankment is prone to erosion due to vibrations caused by train movements regularly as well as rain. At some of sections water gets logged & enter in foundation substrate of railway tracks laid. We came up with the solution to use Concrete Canvas for slope erosion protection & combined catch water drain works wherever needed.

In December 2018 the work has been started to protect the slope from erosion of soil. First of all, we clear the surface from shrubs and fill the pit holes with soil and tried to even the slope and dressing was done. After that measured cut pieces laid on slope one by one with overlap of 100 mm between two pieces of CC then fixed it with the help of pegs having 1.5-2.5 meters length (On each 1m. interval) & 1.5" fully threaded round headed screws having washers. Two lines of screw are maintained on the overlap for better fixing result (each at 200mm distance in straight and 100mm in zigzag way). Insert ½ mt. Concrete Canvas on Both side drain with using Pegs for Fixed and done concreting on Drain portion. Then cure it with water for one with 2-3 hours intervals.

The work completed in two stages of 1125sqm & 1025sqm in December & January.

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Devegetation & Surface preparation





Dressing work complete



Unrolling & Measurement

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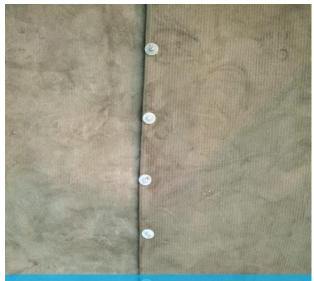
Laying of CC patches



100mm overlap matching



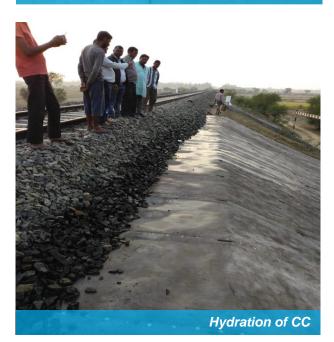
Pegging with spacing 1m



Screwing on 100mm spacing



Concreting in anchor trench





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