

SOUTH CENTRAL RAILWAY



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No. W.352/BR/Policy/Subways

Dated 18-05-2016

Sr.DEN/Co-ord/SC, BZA, GTL, GNT, HYB & NED

Sub: Protection measures to avoid flooding of RUBs and damage of bank during heavy rainfall.

During recent heavy rains in one of the division, the track bank behind the retaining walls of a recently constructed RUB has slipped, leading to suspension of train traffic for some time. The main reason behind the same is non-provision of drainage arrangement even after construction of RUB 3 months earlier. In addition to providing drainage arrangement promptly after construction of the RUB, divisions shall take following measures for protecting the bank and minimizing the flow of water to the RUB.

1. Pitching around the bank of the approach track shall be provided as being done in track bridges to prevent slippage of bank.
 2. A hump of around 0.75m height shall be provided in the approach of the RUB from the point where retaining walls/cutting are starting. This will ensure no entry of water from approach road to the RUB. In case retaining walls are not constructed along the road and only earthen slopes are flattened, then cut earth shall be deposited along the bank of the road. This bund of earth along with hump of 0.75m height on the approach road shall protect against entry of rain water in the RUB. Further a catch water drain also may be provided along the bund if required as per topography of the area.
 3. A RCC pipe of 0.6m dia shall be provided in the approach road behind the hump to ensure smooth movement of rain water from one side to other side of the road.
 4. Divisions shall try to have facility of natural drainage for RUB and drainage arrangements with percolation pits/soak pits shall be used very sparingly only for LC gates with very low TVUs and RVUs and where soil suitable for percolation of rain water is available.
 5. The complete work of RUB including construction of drainage, protection arrangements, roads etc shall be completed within 45 days of launching of RCC boxes of the RUB.
 6. Preferably drain work shall be completed in advance of RUB launching work or at least a kutchra drain shall be constructed before RUB launching work.
- A drawing has been developed showing the above features in RUB construction and same is enclosed for taking further action.

CI-CAO/C for information and necy action.

(S.N Singh)
Principal Chief Engineer

20.5.16
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