



## SOUTH CENTRAL RAILWAY

Office of the Principal Chief Engineer,  
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SECUNDERABAD - 500 071

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

Sub: Provision of Retaining walls in RUB approaches.

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- Retaining walls are being provided in the approaches of the RUBs to retain the earth within Railway land as well as beyond railway boundary.
- Retaining walls are to be designed for the loads expected to act on the structure as per site conditions.
- Standard RCC/PCC retaining wall drawings have also since been issued for adoption by Divisions where in the loads for which they are designed are clearly mentioned.
- In a recent case of collapse of Mass concrete retaining wall in RUB approaches, it has been observed that earth had been dumped behind the retaining wall leading to additional earth surcharge for which it was not designed and consequently retaining wall had collapsed.
- Collapse of RUB approach retaining walls may endanger the safety of the road users apart from causing financial loss to Railways.
- Therefore, in order to avoid recurrence of such instances in future, the following action shall be taken.
  1. RCC U type retaining walls only shall be adopted.
  2. A thorough inspection of site has to be conducted to study the loads likely to act on the retaining wall and a suitably designed RCC retaining wall shall be provided.
  3. In case any standard drawing issued by this office is being adopted, suitability of the drawing for the prevailing /anticipated site conditions shall be verified and in case of any doubt, clarification shall be sought from Bridge Design section before adoption of the drawing.
  4. Earth behind the retaining walls shall be levelled as per the design.
  5. Plying of road vehicles very close to the rear side of the retaining wall, dumping of earth/garbage behind the retaining wall may cause excessive live load and dead load surcharge. Wherever feasible, suitable barriers shall be provided so as prevent plying of road vehicles very close to retaining walls and to maintain the earth level as per the design.

The above instructions shall be strictly adhered to.

  
(P. Gupta)  
CBE/SC

Copy: i) Dy CVO/Engg/SC for information w.r.t Lr No G.265/V/E/2023/09/00958, Dt

18.12.2023 -rky

ii) DEN/Br/SC, BZA, HYB & GTL for information and necessary action