



RE Wall Precautions before Monsoon

- General Construction Condition 1- “ RE Wall Construction is Below OGL Stage.

!! PROBLEM



- ❖ Accumulation of water over excavated PCC Bed & Panel Fascia Side. Leading to Settlement Failure.

✓ SOLUTION



- ❖ Complete the New RE Wall Fronts till OGL and Back fill to Avoid Rain water Damage.



- General Condition - “ RE Wall Prevention from Water Logging Post construction.

!! PROBLEM



- ❖ Avoid water Logging near RE Wall.

✓ SOLUTION



- ❖ Provide Earthen Berm or concrete protection over OGL or SRL.



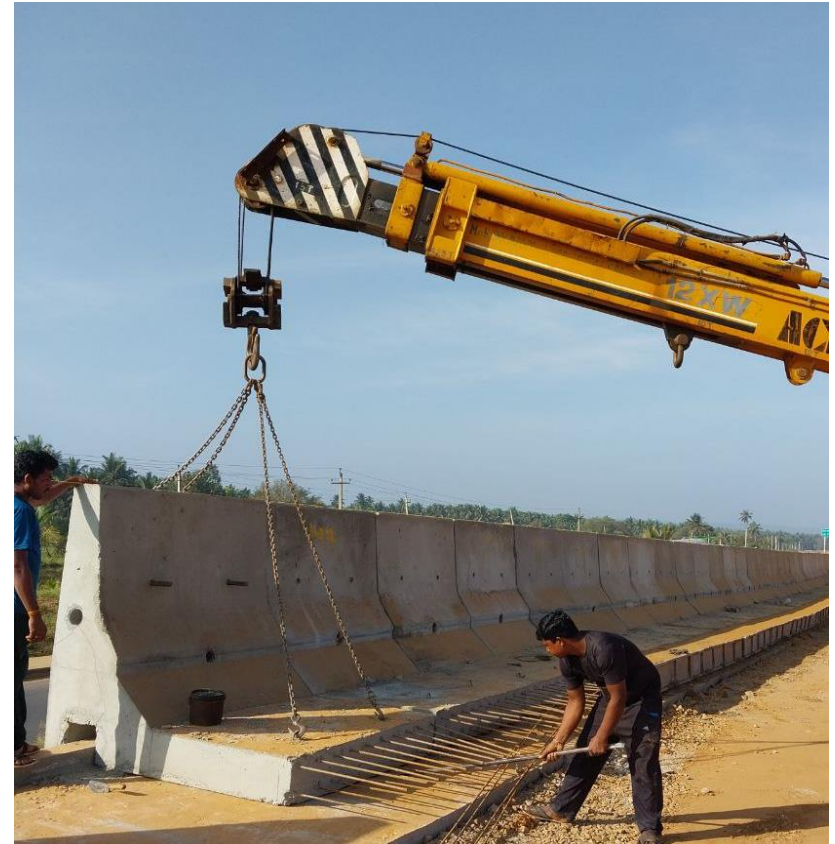
- General Condition - “ RE Wall Completed & Prevention From Rain Cut.

!! PROBLEM



- ❖ Rain Cut in top layer Post Completion of RE Wall.
- ❖ Rain Run off Water disturbs RE Wall Backfill and try to percolate through drainage medium if not protected.

✓ SOLUTION



- ❖ Best Solution is to complete all Road Works with DBM top to prevent ingress of water.
- ❖ Second best is to erect FSCB and provide negative camber, in order to drain water away from RE panel towards median.



- General Condition - “ RE Wall Execution Construction of RE WALL Toe End with Drainage Arrangement.”

!! PROBLEM



- ❖ Tail end of RE Wall is critical part of Structure. This is subjected to erosion if not Protected Suitably.

✓ SOLUTION



- ❖ RE Wall Toe Protection to be executed by Boulder Pitching or any hard Surface topping to avoid erosion and further Damage to Panel Fascia.
- ❖ The toe to be followed by Chute drain for drainage of runoff water.

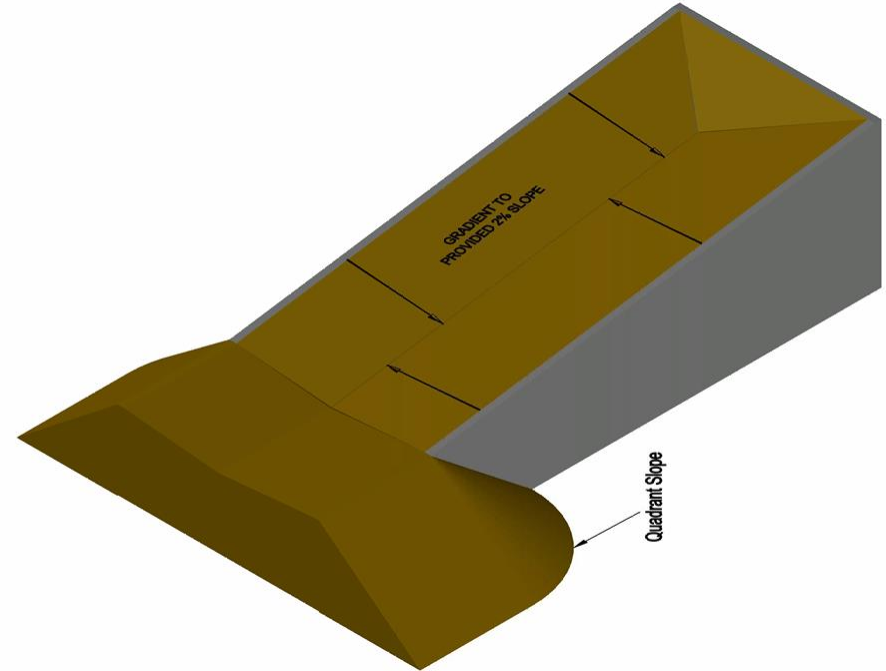


- General Condition - “ RE Wall Execution in Progress at intermediate level.”

!! PROBLEM



✓ SOLUTION



- ❖ RE Wall in Progressive / Construction Stage is to be protected on RE Panel Fascia ends.
- ❖ Compaction near to RE panels is less compared to centre of backfill. Hence water if not diverted will erode Soil fill near to Panel Fascia.

- ❖ Slope of Back Fill / Re Wall Bed to be towards Median (Centre) to Drain water away from RE Panel Fascia.
- ❖ Gradient of Slope towards End of RE wall to protect damage to Cross Wall.

- **General Precautions -**
- **“ RE Wall Execution Planning during Monsoon Season.”**

✓ SOLUTION

- ❖ **Avoid any Fresh Excavation** of RE Wall in Rainy season. This May lead to water ponding in Levelling pad foundation resulting to settlement failure.
- ❖ **Avoid over moisture in Back fill** From Borrow Area. This not only damages the Filling layer of bed but also increases the repetition of work in panel alignment.
- ❖ **Reinforcement Laying Bed** Should be properly compacted and free of Water bumping or Clay Lumps.
- ❖ **Proper Drainage** of rain runoff water is to be planned to avoid pondage and further



- **General Precautions -**

- **Protection of RE Wall With Surcharge & Open Embankment**

- ❖ **Surcharge Over RE Wall** acts as a catchment area in rainy season which allows Rain Water Ingress to Reinforced Soil Zone, The changes in pore water Pressure and loading conditions put RE Wall on risk of deformation.
- ❖ **Solution is to provide** hard surface Topping over any open embankment over RE Wall.
- ❖ **Provide continuous Kerb & Chute Drain** at regular intervals for drainage of Rain runoff water via Chute Drain or Down Take pipe.



- **General Precautions -**

- **Managing Casting Yard & Material Storage**

- ❖ **Elevated Surface for moulds.** Keep moulds on Elevated levelling pad & maintain a uniform gradient in casting yard to avoid water ponding.
- ❖ **Storage of all material** in covered Shed with lock & key on High Ground with good road access.

