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**2021 – Beira
 Bulk Terminal (B.B.T)**

21 April 2021 - PM Civil Limitada, managed by Mr. Hentie Wentzel, was appointed to design and construct a new bulk terminal storage area at Beira port.

- Project funded by: RBG Africa Lda
- 1st Phase 50 000 m²
- Construction period 4 months

CHALLENGES

1. The water table is 600mm from NGL
2. PM Civils were advised not to excavate the insitu sub-grades which consists of very soft silty sands
3. There is an acute shortage of good aggregate for the terminal platforms, so it was decided to reinforce the platform by;
 - i. Lift the sub-grade by 400mm with dredged sea sand, contained with a 200mm capping layer (G6)
 - ii. Sub-base – 120mm thick Neoloy geocell layer with G6 infill to 180mm
 - iii. Base layer – hybrid stabilization with SoilTech Mk. III polymer & cement (C3)
 - iv. Wearing course – 80mm interlocking pavers (35Mpa)



The World Federation of Technical Assessment Organizations (WFTAO). Polyroads Certified

- 2019 – Polyroads ‘s technology is Internationally certified by Agrément (CSIR)



- **SMART MATERIALS**
 - Use insitu materials
 - Stronger roads
 - Quicker construction
 - Cost effective
 - Job creation



Before



During



Geocells being filled with sand/saibro (laterite) mix

