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# **REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.013/35/L/10 Date: 4th July, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** RESIDENT ENGINEER KeNHA  **E-mail:** rd.nairobi@kenha.co.ke  **Address:** P.O.BOX 200-00507 NAIROBI Phone: 0713141871  **2. Customer Contact:** 0713141871 6. Job Card No. 2768/S/2023  **3. Sample Description:** Insitu Base Material 7. Date fee paid: 15/06/2023  **4. Sampled by:** Client. 8. GOK MR No.4053682  **5. Date Sample received:** 16/06/2023 9. Date Analysis started:16/06/2023  **10. Additional information provided by the customer:** Performance based contract for maintenance of Muthaiga-Kiambu B32 Road.  **SOURCE:** **3+000- 4+00 RHS Shoulder**     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Dosage**% | **Grading** | | | | | | **Atterberg Limits** | | | | | **Compaction T180** | | **CBR** | | | % Passing BS Sieve Size (mm) | | | | | | LL | PL | PI | LS | PM | MDD Kg/m3 | OMC( % ) | 4days Soak  (%) | Swell(%) | | 20 | 10 | 5 | 2 | 0.425 | 0.075 | % | % | % | % |  |  |  | | **Improved with Simba Cem 1, 42.5N,7 Days Cure and 7 Days Soak** | | | | | | | | | | | | | | | | | |  | | 1082/S/22 | **3+200-3+450** | **3%** | 100 | 92 | 74 | 57 | 36 | 29 | 16 | 11 | 5 | 3 | 180 |  |  | 210 | <0.1 | | 1083/S/22 | **3+450-3+550** | **3%** | 100 | 92 | 74 | 57 | 36 | 29 | 16 | 11 | 5 | 3 | 180 |  |  | 200 | <0.1 | | 1084/S/22 | **3+600-3+750** | **3%** | 100 | 92 | 74 | 57 | 36 | 29 | 17 | 11 | 6 | 4 | 216 |  |  | 210 | <0.1 | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory. CSE Soils Laboratory**

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