

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.2542/35/L/10 Date: 12th June, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** COUNTY GOVERNMENT OF KIAMBU  **E-mail: cgktransportdirectorate@gmail.com**  **Address:** P.O BOX 2344-00900 KIAMBU Phone: 0721485343  **2. Customer Contact:** 0721485343 6. Job Card No. 2694/S/2023  **3. Sample Description:** Alignment Soils 7. Date fee paid: 06/06/2023  **4. Sampled by:** Client. 8. GOK MR No.4053614  **5. Date Sample received:** 06/06/2023 9. Date Analysis started:09/06/2023  **10. Additional information provided by the customer:** Kiambu Buspark.  **KeNHA/RD/DHPD/3297/2021.**     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Grading** | | | | | | | | **Atterberg Limits** | | | | | | **Compaction T99** | | **CBR** | | | % Passing BS Sieve Size (mm) | | | | | | | | LL | PL | | PI | LS | PM |  | OMC( % ) | 4days Soak  (%) | Swell(%) | | 20 | 10 | 5 | | 2 | 0.425 | | 0.075 | % | % | | % | % |  | MDD Kg/m3 | | 1065/S/22 | Marafiki Sacco Bay | 100 | 100 | 100 | | 99 | 97 | | 95 | 44 | 20 | | 24 | 12 | 2328 | 1374 | 32.4 | 4 | 1.1 | | **SOIL COMPOSITION: Gravel = 1%, Sand = 4%, Silt/clay =95%** | | | | | | | | | | | | | | | | | | | 1066/S/22 | Tikagi Sacco Bay | 100 | 100 | 100 | | 97 | 96 | | 94 | 39 | 18 | | 22 | 11 | 2112 | 1307 | 30.0 | 6 | 1.0 | | **SOIL COMPOSITION: Gravel = 3%, Sand = 3%, Silt/clay =94%** | | | | | | | | | | | | | | | | | | | 1067/S/22 | Mataara Sacco Bay | 100 | 100 | 100 | | 99 | 96 | | 97 | 35 | 13 | 22 | | 11 | 2112 | 1303 | 27.4 | 7 | 1.0 | | **SOIL COMPOSITION: Gravel = 1%, Sand =2%, Silt/clay =97%** | | | | | | | | | | | | | | | | | | | 1068/S/22 | Entrance Bay | 100 | 100 | 100 | | 99 | 98 | | 96 | 49 | 24 | | 24 | 12 | 2352 | 1326 | 31.4 | 6 | 1.1 | | **SOIL COMPOSITION: Gravel = 1%, Sand = 3%, Silt/clay =96%** | | | | | | | | | | | | | | | | | | | 1069/S/22 | Bakaki Sacco | 100 | 100 | | 100 | 99 | | 98 | 97 | 39 | 17 | | 23 | 12 | 2254 | 1300 | 31.0 | 4 | 1.0 | | **SOIL COMPOSITION: Gravel = 1%, Sand = 2%, Silt/clay =97%** | | | | | | | | | | | | | | | | | | | 1070/S/22 | Twiga Mall Bay | 100 | 100 | 100 | | 99 | 98 | | 96 | 47 | 21 | | 26 | 13 | 2548 | 1224 | 32.0 | 5 | 1.0 | | **SOIL COMPOSITION: Gravel = 1%, Sand = 3%, Silt/clay =96%** | | | | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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