

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.024/35/L/10 Date: 6th July, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** PATRICK MBURU.  **E-mail:** patmbukia@gmail.com  **Address:** Not provided **Phone:** 0712780510  **2. Customer Contact:**0712780510 6. **Job Card No.** 2849/S/2023  **3. Sample Description:** Alignment soils 7. **Date fee paid:** 27/06/2023  **4. Sampled by:** Client. 8. **GOK MR No**. 4053756  **5. Date Sample received:** 26/06/2023 9. **Date Analysis started**: 28/06/2023  **10. Additional information provided by the customer: Bidco-Mjengo-Dioni Road (Construction & upgrading of Makongeni Buspark in Thika).**  **Source: Bidco**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Dosage**% | **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 | | 1099/S/23 | Red soil | Neat | 100 | 98 | 93 | 85 | 76 | 71 | 48 | 26 | 22 | 11 | 1672 | 1318 | 20.4 | 8 | 0.3 | | **SOIL COMPOSITION: Gravel = 15%, Sand = 14%, Silt/clay =71%** | | | | | | | | | | | | | | | | 1100/S/22 | Black | Neat | 100 | 100 | 99 | 98 | 97 | 95 | 48 | 30 | 19 | 9 | 1843 | 1540 | 21.2 | 6 | 0.3 | | **SOIL COMPOSITION: Gravel =2 %, Sand = 3%, Silt/clay =95%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**