

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.545/35/L/10 Date: 18th September, 2023

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| **Laboratory Test Report** |

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| 1. **Customer’s Details**: REGINA TAABU KILONZO   **E-mail:** r.kilonzo@kenha.co.ke  **Address:** P.O BOX 200-5007 NRB **Phone:** 0726118998  **2. Customer Contact:** 0726118998 **6. Job Card No.** 520/S/2023  **3. Sample Description:** Alignment Soils **7. Date fee paid:** 19/08/2023  4. **Sampled by:** Client. **8. GOK MR No**.4058762  5. **Date Sample received:** 29/08/2023 **9. Date Analysis started:**08/05/2023  10. **Additional information provided by the customer:** Proposed service Road Along Bomas-Kiserian(B19) Road (Rongai Town)  **Source:** Bomas -Kiserian.     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | 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 | | 239/S/23 | KM 5+567 RHS  Alignment | 100 | 100 | 100 | 61 | 52 | 46 | 49 | | 27 | | 22 | | 11 | 1248 | 1532 | 20.9 | 28 | 0.35 | | **SOIL COMPOSITION: Gravel = 39%, Sand = 15%, Silt/clay =46%** | | | | | | | | | | | | | | | | | | | 240/S/23 | KM 8+457 Alignment | 100 | 100 | 99 | 90 | 83 | 75 | 43 | | 21 | | 22 | | 11 | 1826 | 1480 | 24.6 | 3 | 1.30 | | **SOIL COMPOSITION: Gravel = 10%, Sand = 15%, Silt/clay =75%** | | | | | | | | | | | | | | | | | | | 241/S/23 | KM 7+440 RHS  Alignment | 100 | 100 | 100 | 97 | 95 | 92 | 56 | 32 | | 24 | | 12 | | 2280 | 1445 | 23.7 | 2 | 1.40 | | **SOIL COMPOSITION: Gravel = 3%, Sand = 5%, Silt/clay =92%** | | | | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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