

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.138/35/L/10 Date: 26th July, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** RESIDENT ENGINEER KURA  **E-mail:** estherwa63@gmail.com  **Address:** P.O BOX 17956-00500 NRB Phone: 0721515815  **2. Customer Contact:** 0721515815 6. Job Card No. 131/S/2023  **3. Sample Description:** Alignment Soils 7. Date fee paid: 17/07/2023  **4. Sampled by:** Client. 8. GOK MR No.4053908  **5. Date Sample received:** 17/07/2023 9. Date Analysis started:21/07/2023  **10. Additional information provided by the customer:** Improvement of Thindigwa Highway.     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | 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 | | 073/S/23 | 0+100 | 100 | 84 | 66 | 38 | 22 | 18 | NON-PLASTIC | | | | | 1586 | 14.5 | 40 | 0.1 | | **SOIL COMPOSITION: Gravel = 62%, Sand =20 %, Silt/clay =18%** | | | | | | | | | | | | | | | | 074/S/23 | 0+540 | 100 | 93 | 80 | 63 | 43 | 37 | 50 | 26 | 24 | 12 | 1032 | 1438 | 20.5 | 13 | 1.9 | | **SOIL COMPOSITION: Gravel = 37%, Sand = 26%, Silt/clay =37%** | | | | | | | | | | | | | | | | 075/S/23 | 0+990 | 100 | 98 | 87 | 72 | 60 | 49 | 42 | 20 | 22 | 11 | 1320 | 1521 | 18.1 | 12 | 1.6 | | **SOIL COMPOSITION: Gravel = 28%, Sand = 23%, Silt/clay =49%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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