

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.797/35/L/10 Date: 24th October, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** RESIDENT ENGINEER. KURA  **E-mail: esther**wa63@gmail.com  **Address:** P.O BOX 17956-00500 NRB Phone: 0721515815  **2. Customer Contact:** 0722485561 6. Job Card No. 877/S/2023  **3. Sample Description:** Allignment material 7. Date fee paid: 04/10/2023  **4. Sampled by:** Client. 8. GOK MR No.4367770  **5. Date Sample received:** 04/10/2023 9. Date Analysis started:11/10/2023  **10. Additional information provided by the customer:** Rehabilitation of Magenta close     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | 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 | | 424/S/23 | TP1 0.1-0.5  0+080 | 100 | 87 | 75 | 59 | 41 | 29 | 34 | 22 | 12 | 6 | 612 | 1580 | 14.5 | 30 | 0.3 | | **SOIL COMPOSITION: Gravel = 41%, Sand = 30%, Silt/clay =29%** | | | | | | | | | | | | | | | | 425/S/23 | TP2 0.2-0.4  0+250 | 100 | 92 | 83 | 70 | 51 | 38 | 38 | 20 | 18 | 9 | 918 | 1700 | 18.5 | 19 | 0.5 | | **SOIL COMPOSITION: Gravel = 30%, Sand = 32%, Silt/clay =38%** | | | | | | | | | | | | | | | | 426/S/23 | TP3 0.3-0.5  0+200 | 100 | 87 | 74 | 61 | 48 | 34 | 34 | 22 | 12 | 6 | 576 | 1650 | 19.5 | 25 | 0.3 | | **SOIL COMPOSITION: Gravel = 39%, Sand = 27%, Silt/clay =34%** | | | | | | | | | | | | | | | | 427/S/23 | TP 4 0.4-0.7  0+450 | 100 | 94 | 74 | 50 | 35 | 31 | 33 | 14 | 18 | 9 | 630 | 1768 | 17.5 | 30 | 0.3 | | **SOIL COMPOSITION: Gravel = 50%, Sand = 19%, Silt/clay =31%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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