

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.2230/35/L/10 Date: 24th April, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** RESIDENT ENGINEER/ (CAS) CONSULTANTS LTD  **E-mail:** abdirizacka65@gmail.com  **Address:** Not provided **Phone:** 0721325566  **2. Customer Contact:**0721325566 6. **Job Card No.** 2103/S/2023  **3. Sample Description:** Subbase Material 7. **Date fee paid:** 12/04/2023  **4. Sampled by:** Client. 8. **GOK MR No**. 4127911  **5. Date Sample received:** 12/04/2023 9. **Date Analysis started**: 17/04/2023  **10. Additional information provided by the customer: Construction of Mau - Mau LOT 2 Muranga Section, kiamara-Kangema Road No 5. Source: Km 9+100 CL,8+400 CL, Km 11+100 LHS & Km 9+140 LHS**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **S/NO** | **Description** | **Dosage** | **MDD by VH Method** | **OMC** | **PI on Fines** | **Particle Size Distribution,**  **% Passing BS Sieves size (mm)** | | | | | | | | | | | **50** | **37.5** | **28** | **20** | **10** | **6.3** | **2** | **1** | **0.425** | **0.075** | | **(%)** | **Kg/m3** | **(%)** | **(%)** | | 815/S/22 | GCS Combined from cores | Neat | 2005 | 5.9 | Non-Plastic | 100 | 100 | 95 | 82 | 35 | 18 | 8 | 5 | 3 | 1 | |  | | | **LOAD**  **KNs** | **UCS**  **KN/M2** |  | | | | | | | | | | | | 816/S/22 | KM 9+100 CL Core | Insitu | 150.0 | 8265 |  |  |  |  |  |  |  |  |  |  |  | | **IMPROVED WITH BAMBURI CEMENT 42.5N CEMI 7 DAYS CURE & 7 DAYS SOAK** | | | | | | | | | | | | | | | | | 817/S/22 | GCS Combined from cores | 2.0% | 156.2 | 8606 |  |  |  |  |  |  |  |  |  |  |  | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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