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# **REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

Telegraphic Address: “MINWORKS”, Nairobi Materials Testing & Research Division Telephone: Nairobi 554950/3/4 Machakos Road, Industrial Area Fax: 554877 P.O. Box 11873 – 00400 E-mail: chiefengineer@mtrd.go.ke NAIROBI

Ref No. M.487/35/L/10 Date: 4th September, 2023

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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.** 547/S/2023

**3. Sample Description:**  Bottom Subgrade Layer 7. **Date fee paid:** 01/09/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058788

**5. Date Sample received:** 01/09/2023 9. **Date Analysis started**:01/09/2023

**10. Additional information provided by the customer:** Upgrading to Bituminous standard of Mariguini Housing project Roads (Road 4 & Road 2)

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| **Sample No.** | **Date tested** | **Chainage**  **(Km)** | **Position** | **Layer Thickness (mm)** | **Field dry density**  **Kg/m3** | **Field moisture content (%)** | **Max. dry density**  **T99**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **Km 0+180-0+400 Road 4 Bottom subgrade Layer** | | | | | | | | | | |
| 265/S/23 | 01/09/23 | 0+220 | LHS | 150 | 1400 | 20.0 | 1371 | 21.0 | 102 | 95 |
| 266/S/23 | 01/09/23 | 0+350 | CL | 150 | 1407 | 18.0 | 1371 | 21.0 | 99 | 86 |
| **Km 0+080-0+300 Road 2 Bottom subgrade Layer** | | | | | | | | | | |
| 267/S/23 | 01/09/23 | 0+130 | RHS | 150 | 1384 | 19.0 | 1371 | 21.0 | 99 | 91 |
| 268/S/23 | 01/09/23 | 0+250 | CL | 150 | 1386 | 17.0 | 1371 | 21.0 | 102 | 81 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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