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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.329/35/L/10 Date: 15th August, 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.** 327/S/2023

**3. Sample Description:** Fill & Subgrade Layer 7. **Date fee paid:** 09/08/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058588

**5. Date Sample received:** 09/08/2023 9. **Date Analysis started**:09/08/2023

**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+000-0+080 Road 2 Bottom subgrade Layer** | | | | | | | | | | |
| 174/S/23 | 09/08/23 | 0+040 | LHS | 150 | 1351 | 14.5 | 1557 | 16.5 | 87 | 88 |
| **Km 0+080-0+140 Road 2 Final fill Layer** | | | | | | | | | | |
| 175/S/23 | 09/08/23 | 0+080 | CL | 150 | 1429 | 10.7 | 1557 | 16.5 | 92 | 65 |
| 176/S/23 | 09/08/23 | 0+040 | RHS | 150 | 1416 | 15.3 | 1557 | 16.5 | 91 | 93 |
| **Km 0+200-0+400 Road 4 Final fill Layer** | | | | | | | | | | |
| 177/S/23 | 09/08/23 | 0+010 | CL | 150 | 1529 | 13.9 | 1484 | 18.2 | 103 | 76 |
| 178/S/23 | 09/08/23 | 0+200 | LHS | 150 | 1409 | 12.4 | 1484 | 18.2 | 95 | 68 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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