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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.652/35/L/10 Date: 28th 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.** 788/S/2023

**3. Sample Description:**  Top Subgrade Layer 7. **Date fee paid:** 26/09/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058993

**5. Date Sample received:** 26/09/2023 9. **Date Analysis started**:26/09/2023

**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+090-0+190 Road 2 Top subgrade Layer** | | | | | | | | | | |
| 3825/S/23 | 26/09/23 | 0+090 | LHS | 150 | 1534 | 16.7 | 1527 | 21.0 | 100 | 80 |
| 383/S/23 | 26/09/23 | 0+190 | RHS | 150 | 1538 | 17.9 | 1527 | 21.0 | 101 | 85 |
| **Km 0+100-0+380 Road 4 Top subgrade Layer** | | | | | | | | | | |
| 384/S/23 | 26/09/23 | 0+100 | RHS | 150 | 1524 | 18.7 | 1527 | 21.0 | 100 | 89 |
| 385/S/23 | 26/09/23 | 0+200 | CL | 150 | 1551 | 20.2 | 1527 | 21.0 | 102 | 96 |
| 386/S/23 | 26/09/23 | 0+300 | LHS | 150 | 1548 | 17.2 | 1527 | 21.0 | 101 | 81 |
| 387/S/23 | 26/09/23 | 0+380 | RHS | 150 | 1524 | 16.6 | 1527 | 21.0 | 100 | 79 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**