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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.444/35/L/10 Date: 30th August, 2023

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**1. Customer’s Details:** RESIDENT ENGINEER KeNHA.

**E-mail:** rd.nairobi@kenha.co.ke

**Address:** P.O. Box 200-00507 NRB **Phone:** 0713141871

**2. Customer Contact:** 0713141871 6. **Job Card No.** 509/S/2023

**3. Sample Description:** Wearing Course Layer 7. **Date fee paid:** 28/08/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058751

**5. Date Sample received:** 25/08/2023 9. **Date Analysis started**:25/08/2023

**10. Additional information provided by the customer: Routine Maintenance and spot Improvement of Magadi gate -Oloirboto (B19)**

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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**  **T180**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **Base layer Km 0+670-2+100 Wearing Course Layer** | | | | | | | | | | |
| 242/S/23 | 25/08/23 | 8+200 | LHS | 159 | 1478 | 10.0 | 1700 | 14.6 | 87 | 68 |
| 243/S/23 | 25/08/23 | 11+500 | RHS | 90 | 1469 | 9.0 | 1700 | 14.6 | 86 | 62 |
| 244/S/23 | 25/08/23 | 14+000 | LHS | 150 | 1474 | 10.8 | 1700 | 14.6 | 87 | 74 |
| 245/S/23 | 25/08/23 | 14+000 | CL | 150 | 1620 | 9.8 | 1700 | 14.6 | 95 | 67 |
| 246/S/23 | 25/08/23 | 14+360 | RHS | 140 | 1538 | 9.7 | 1700 | 14.6 | 90 | 66 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS OiC Soils Laboratory. CSE Soils Laboratory.**

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