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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.1799/35/L/10 Date: 27th February, 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:** 0724967038

**2. Customer Contact:** 0724967038 6. **Job Card No.** 1791/S/2023

**3. Sample Description:** Subbase Layer 7. **Date fee paid:** 20/02/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4127601

**5. Date Sample received:** 17/02/2023 9. **Date Analysis started**:17/02/2023

**10. Additional information provided by the customer:** Routine Maintenance and Spot Improvement of Oletepesi-Magadi road (B19) Road.

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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 (%)** |
| **Subbase layer Km 9+000-9+600 LHS SHOULDER** | | | | | | | | | | |
| 697/S/22 | 17/2/2023 | 9+010 | LHS | 150 | 1812 | 9.7 | 1887 | 12.5 | 96 | 78 |
| 698/S/22 | 17/2/2023 | 9+160 | LHS | 150 | 1831 | 9.9 | 1887 | 12.5 | 97 | 79 |
| 699/S/22 | 17/2/2023 | 9+310 | LHS | 150 | 1812 | 9.4 | 1887 | 12.5 | 96 | 75 |
| 700/S/22 | 17/2/2023 | 9+460 | LHS | 150 | 1849 | 9.4 | 1887 | 12.5 | 98 | 75 |
| **Subbase layer Km 12+800-13+750 RHS SHOULDER** | | | | | | | | | | |
| 701/S/22 | 17/2/2023 | 12+810 | RHS | 150 | 1793 | 9.4 | 1887 | 12.5 | 95 | 75 |
| 702/S/22 | 17/2/2023 | 13+000 | RHS | 150 | 1825 | 9.6 | 1887 | 12.5 | 96 | 77 |
| 703/S/22 | 17/2/2023 | 13+190 | RHS | 150 | 1793 | 9.5 | 1887 | 12.5 | 95 | 76 |
| 704/S/22 | 17/2/2023 | 13+380 | RHS | 150 | 1824 | 8.5 | 1887 | 12.5 | 96 | 76 |
| 705/S/22 | 17/2/2023 | 13+570 | RHS | 150 | 1831 | 9.4 | 1887 | 12.5 | 97 | 75 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory. CSE Soils Laboratory.**

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