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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.1988/35/L/10 Date: 17th March, 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.** 2054/S/2023

**3. Sample Description:** Base Layer 7. **Date fee paid:** 15/03/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4127870

**5. Date Sample received:** 15/03/2023 9. **Date Analysis started**:15/03/2023

**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 (%)** |
| **Base layer Km 10+500-12+500 LHS SHOULDER** | | | | | | | | | | |
| 788/S/22 | 15/3/2023 | 10+500 | LHS | 150 | 1871 | 9.7 | 1917 | 11.0 | 98 | 88 |
| 789/S/22 | 15/3/2023 | 10+750 | LHS | 150 | 1851 | 9.2 | 1917 | 11.0 | 97 | 84 |
| 790/S/22 | 15/3/2023 | 11+000 | LHS | 150 | 1905 | 9.8 | 1917 | 11.0 | 99 | 89 |
| 791/S/22 | 15/3/2023 | 11+250 | LHS | 150 | 1821 | 8.9 | 1917 | 11.0 | 95 | 81 |
| 792/S/22 | 15/3/2023 | 11+750 | LHS | 150 | 1845 | 9.4 | 1917 | 11.0 | 96 | 85 |
| 793/S/22 | 15/3/2023 | 12+000 | LHS | 150 | 1873 | 9.9 | 1917 | 11.0 | 98 | 90 |
| 794/S/22 | 15/3/2023 | 12+250 | LHS | 150 | 1891 | 9.5 | 1917 | 11.0 | 99 | 86 |
| 795/S/22 | 15/3/2023 | 12+500 | LHS | 150 | 1856 | 9.6 | 1917 | 11.0 | 97 | 87 |
| **Base layer Km 8+750-10+250 LHS SHOULDER** | | | | | | | | | | |
| 796/S/22 | 15/3/2023 | 8+750 | LHS | 150 | 1901 | 9.8 | 1917 | 11.0 | 99 | 89 |
| 797/S/22 | 15/3/2023 | 9+000 | LHS | 150 | 1850 | 9.5 | 1917 | 11.0 | 97 | 86 |
| 798/S/22 | 15/3/2023 | 9+200 | LHS | 150 | 1876 | 8.9 | 1917 | 11.0 | 98 | 81 |
| 799/S/22 | 15/3/2023 | 9+400 | LHS | 150 | 1816 | 9.8 | 1917 | 11.0 | 95 | 89 |
| 800/S/22 | 15/3/2023 | 9+600 | LHS | 150 | 1836 | 8.9 | 1917 | 11.0 | 96 | 81 |
| 801/S/22 | 15/3/2023 | 9+750 | LHS | 150 | 1826 | 9.4 | 1917 | 11.0 | 95 | 85 |
| 802/S/22 | 15/3/2023 | 10+000 | LHS | 150 | 1907 | 9.9 | 1917 | 11.0 | 99 | 90 |
| 803/S/22 | 15/3/2023 | 10+250 | LHS | 150 | 1880 | 9.7 | 1917 | 11.0 | 98 | 88 |

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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 12+750-13+300 LHS SHOULDER** | | | | | | | | | | |
| 804/S/22 | 15/3/2023 | 12+750 | LHS | 150 | 1816 | 9.0 | 1917 | 11.0 | 95 | 82 |
| 805/S/22 | 15/3/2023 | 12+950 | LHS | 150 | 1878 | 9.7 | 1917 | 11.0 | 98 | 88 |
| 806/S/22 | 15/3/2023 | 13+150 | LHS | 150 | 1851 | 9.4 | 1917 | 11.0 | 97 | 85 |
| 807/S/22 | 15/3/2023 | 13+300 | LHS | 150 | 1833 | 9.8 | 1917 | 11.0 | 96 | 89 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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