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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.2117/35/L/10 Date: 4th April, 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.** 2148/S/2023

**3. Sample Description:** Base Layer 7. **Date fee paid:** 24/03/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4127954

**5. Date Sample received:** 31/03/2023 9. **Date Analysis started**:31/03/2023

**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 11+200-13+200 RHS SHOULDER** | | | | | | | | | | |
| 828/S/22 | 31/03/23 | 11+200 | RHS | 150 | 1817 | 9.3 | 1917 | 11.0 | 95 | 85 |
| 829/S/22 | 31/03/23 | 11+450 | RHS | 152 | 1868 | 10.1 | 1917 | 11.0 | 97 | 92 |
| 830/S/22 | 31/03/23 | 11+620 | RHS | 148 | 1879 | 9.7 | 1917 | 11.0 | 98 | 88 |
| 831/S/22 | 31/03/23 | 11+800 | RHS | 150 | 1821 | 11.0 | 1917 | 11.0 | 98 | 100 |
| 832/S/22 | 31/03/23 | 12+050 | RHS | 150 | 1898 | 10.2 | 1917 | 11.0 | 95 | 93 |
| 833/S/22 | 31/03/23 | 12+250 | RHS | 150 | 1859 | 10.6 | 1917 | 11.0 | 99 | 96 |
| 834/S/22 | 31/03/23 | 12+500 | RHS | 152 | 1879 | 10.9 | 1917 | 11.0 | 97 | 99 |
| 835/S/22 | 31/03/23 | 12+700 | RHS | 150 | 1879 | 9.8 | 1917 | 11.0 | 98 | 89 |
| 836/S/22 | 31/03/23 | 12+900 | RHS | 150 | 1898 | 9.6 | 1917 | 11.0 | 99 | 87 |
| 837/S/22 | 31/03/23 | 13+100 | RHS | 150 | 1840 | 10.1 | 1917 | 11.0 | 96 | 92 |

**Eng. J. M. Mbarua**

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

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