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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.553/35/L/10 Date: 18th September, 2023

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**1. Customer’s Details:** SAMA HOLDING LIMITED.

**E-mail:** samaholdingltd@gmail.com

**Address:** P.O BOX 44799-00100 NRB **Phone:** 0714768578

**2. Customer Contact:** 0714768578 6. **Job Card No.** 573/S/2023

**3. Sample Description:**  Base Layer 7. **Date fee paid:** 05/09/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058811

**5. Date Sample received:** 05/09/2023 9. **Date Analysis started**:05/09/2023

**10. Additional information provided by the customer:** Access to Kibera Housing (Undugu -Andolo 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 (%)** |
| **KM 0+000-0+270 Base Layer Trial Section** | | | | | | | | | | |
| 316/S/23 | 05/09/2023 | 0+030 | LHS | 150 | 1731 | 11.8 | 1723 | 13.3 | 100 | 89 |
| 317/S/23 | 05/09/2023 | 0+080 | CL | 150 | 1794 | 12.2 | 1723 | 13.3 | 104 | 92 |
| 318/S/23 | 05/09/2023 | 0+130 | RHS | 150 | 1766 | 11.3 | 1723 | 13.3 | 102 | 85 |
| 319/S/23 | 05/09/2023 | 0+180 | CL | 150 | 1815 | 11.1 | 1723 | 13.3 | 105 | 83 |
| 320/S/23 | 05/09/2023 | 0+230 | LHS | 150 | 1778 | 11.7 | 1723 | 13.3 | 103 | 88 |

**Eng. J. M. Mbarua**

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

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