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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.392/35/L/10 Date: 22nd August, 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.** 425/S/2023

**3. Sample Description:** Subgrade Layer 7. **Date fee paid:** 18/08/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058678

**5. Date Sample received:** 18/08/2023 9. **Date Analysis started**:18/08/2023

**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**  **T99 &**  **T180**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **KM 0+550-0+680 Subgrade Layer** | | | | | | | | | | |
| 215/S/23 | 18/08/2023 | 0+590 | CL | 150 | 1681 | 17.0 | 1660 | 17.3 | 101 | 98 |
| 216/S/23 | 18/08/2023 | 0+650 | LHS | 150 | 1644 | 16.6 | 1660 | 17.3 | 99 | 96 |
| **KM 0+200-0+320 Subbase Layer** | | | | | | | | | | |
| 217/S/23 | 18/08/2023 | 0+210 | LHS | 150 | 1742 | 12.0 | 1723 | 13.7 | 101 | 88 |
| 218/S/23 | 18/08/2023 | 0+260 | CL | 150 | 1784 | 11.8 | 1723 | 13.7 | 104 | 86 |
| 219/S/23 | 18/08/2023 | 0+310 | RHS | 150 | 1763 | 11.5 | 1723 | 13.7 | 102 | 84 |

**Eng. J. M. Mbarua**

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

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