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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.458/35/L/10 Date: 31st 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.** 389/S/2023

**3. Sample Description:** Subbase Layer 7. **Date fee paid:** 25/08/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058732

**5. Date Sample received:** 25/08/2023 9. **Date Analysis started**:25/08/2023

**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**  **T180**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **KM 0+320-0+680 Subbase Layer** | | | | | | | | | | |
| 232/S/23 | 25/08/2023 | 0+390 | LHS | 150 | 1765 | 11.0 | 1723 | 13.3 | 102 | 83 |
| 233/S/23 | 25/08/2023 | 0+450 | CL | 150 | 1788 | 12.8 | 1723 | 13.3 | 104 | 96 |
| 234/S/23 | 25/08/2023 | 0+510 | RHS | 150 | 1811 | 11.8 | 1723 | 13.3 | 105 | 89 |
| 235/S/23 | 25/08/2023 | 0+570 | CL | 150 | 1834 | 12.3 | 1723 | 13.3 | 106 | 92 |
| 236/S/23 | 25/08/2023 | 0+630 | LHS | 150 | 1736 | 11.6 | 1723 | 13.3 | 101 | 87 |

**Eng. J. M. Mbarua**

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

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