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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.390/35/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.** 403/S/2023

**3. Sample Description:** FinalFill Layer 7. **Date fee paid:** 16/08/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4058656

**5. Date Sample received:** 16/08/2023 9. **Date Analysis started**:16/08/2023

**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**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **KM 0+000-0+550 Final Fill Layer** | | | | | | | | | | |
| 210/S/23 | 16/08/2023 | 0+080 | LHS | 150 | 1623 | 16.0 | 1660 | 17.3 | 98 | 92 |
| 211/S/23 | 16/08/2023 | 0+200 | CL | 150 | 1677 | 15.1 | 1660 | 17.3 | 101 | 87 |
| 212/S/23 | 16/08/2023 | 0+290 | RHS | 150 | 1693 | 16.7 | 1660 | 17.3 | 102 | 97 |
| 213/S/23 | 16/08/2023 | 0+400 | CL | 150 | 1648 | 15.8 | 1660 | 17.3 | 99 | 91 |
| 214/S/23 | 16/08/2023 | 0+520 | LHS | 150 | 1696 | 16.5 | 1660 | 17.3 | 102 | 95 |

**Eng. J. M. Mbarua**

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

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