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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.800/35/L/10 Date: 24th October, 2023

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**1. Customer’s Details:** RESIDENT ENGINEER. KURA.

**E-mail:** estherwa63@gmail.com

**Address:** P.O BOX 17956-00500 NAIROBI **Phone:** 0721515815

**2. Customer Contact:** 0722635816 6. **Job Card No.** 1024/S/2023

**3. Sample Description:** Subbase Layer 7. **Date fee paid:** 18/10/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4367881

**5. Date Sample received:** 18/10/2023 9. **Date Analysis started**: 18/10/2023

**10. Additional information provided by the customer:** Construction to bitumen standard of rhino park and other access roads in Nairobi County( Kalinde 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 1+200-1+700 Subbase layer** | | | | | | | | | | |
| 675/S/23 | 18/10/23 | 1+200 | CL | 150 | 1904 | 17.8 | 1634 | 17.5 | 99 | 102 |
| 676/S/23 | 18/10/23 | 1+300 | LHS | 150 | 1689 | 17.6 | 1634 | 17.5 | 103 | 101 |
| 677/S/23 | 18/10/23 | 1+500 | RHS | 150 | 1646 | 17.6 | 1634 | 17.5 | 101 | 100 |
| 677/S/23 | 18/10/23 | 1+700 | CL | 150 | 1669 | 16.9 | 1634 | 17.5 | 102 | 97 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory. CSE Soils Laboratory**

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