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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.1890/35/L/10 Date: 8th March, 2023

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

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

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

**2. Customer Contact:** 0721515815 6. **Job Card No.** 1919/S/2023

**3. Sample Description:** Base Layer 7. **Date fee paid:** 03/03/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4127707

**5. Date Sample received:** 03/03/2023 9. **Date Analysis started**: 03/03/2023

**10. Additional information provided by the customer:** Routine Maintenance of Ngong Rongai and Kiserian Area Roads (Oroika 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 (%)** |
| **Base Layer Km 0+000-1+700** | | | | | | | | | | |
| 769/S/22 | 01/03/23 | 0+025 | CL | 140 | 1630 | 15.0 | 1679 | 16.8 | 97 | 89 |
| 770/S/22 | 01/03/23 | 0+475 | RHS | 148 | 1618 | 15.6 | 1679 | 16.8 | 96 | 93 |
| 771/S/22 | 01/03/23 | 0+875 | LHS | 145 | 1614 | 15.2 | 1679 | 16.8 | 96 | 90 |
| 772/S/22 | 01/03/23 | 1+490 | CL | 142 | 1611 | 15.5 | 1679 | 16.8 | 96 | 92 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory. CSE Soils Laboratory.**

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