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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.1645/35/L/10 Date: 7th February, 2023

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**1. Customer’s Details:** KENYA PIPELINE COMPANY.

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

**Address:** Not provided **Phone:** 0721515815

**2. Customer Contact:** 0721515815 6. **Job Card No.** 1676/S/2023

**3. Sample Description:** Subgrade Layer 7. **Date fee paid:** 03/02/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115996

**5. Date Sample received:** 03/02/2023 9. **Date Analysis started**: 03/02/2023

**10. Additional information provided by the customer:** Construction of Bottom Loading Facility DS 10 Nairobi Terminal.

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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 (%)** |
| **Subgrade 1 Layer Km 0+000-0+138 Section A** | | | | | | | | | | |
| 671/S/22 | 03/02/23 | 0+020 | LHS | 150 | 1529 | 13.9 | 1544 | 16.5 | 99 | 84 |
| 672/S/22 | 03/02/23 | 0+025 | CL | 150 | 1559 | 13.2 | 1544 | 16.5 | 101 | 80 |
| **Subgrade 2 Layer Km 0+000-0+138 Section B** | | | | | | | | | | |
| 673/S/22 | 03/02/23 | 0+050 | LHS | 150 | 1575 | 14.5 | 1544 | 16.5 | 102 | 88 |
| 674/S/22 | 03/02/23 | 0+055 | CL | 150 | 1544 | 13.2 | 1544 | 16.5 | 100 | 80 |
| 675/S/22 | 03/02/23 | 0+060 | RHS | 150 | 1529 | 14.7 | 1544 | 16.5 | 99 | 89 |
| 676/S/22 | 03/02/23 | 0+080 | LHS | 150 | 1559 | 13.9 | 1544 | 16.5 | 101 | 84 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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