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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.1496/35/L/10 Date: 18th January, 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.** 1462/S/2023

**3. Sample Description:** Fill Layer 7. **Date fee paid:** 13/01/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115804

**5. Date Sample received:** 13/01/2023 9. **Date Analysis started**: 13/01/2023

**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 (%)** |
| **Fill Layer Km 0+000-0+100** | | | | | | | | | | |
| 607/S/22 | 13/01/23 | 0+020 | LHS | 150 | 1413 | 19.3 | 1385 | 24.7 | 102 | 78 |
| 608/S/22 | 13/01/23 | 0+020 | CL | 150 | 1424 | 20.2 | 1385 | 24.7 | 103 | 76 |
| 609/S/22 | 13/01/23 | 0+020 | RHS | 150 | 1434 | 19.0 | 1385 | 24.7 | 104 | 77 |
| 610/S/22 | 13/01/23 | 0+050 | LHS | 150 | 1385 | 18.5 | 1385 | 24.7 | 100 | 75 |
| 611/S/22 | 13/01/23 | 0+050 | CL | 150 | 1499 | 19.9 | 1385 | 24.7 | 108 | 81 |
| 612/S/22 | 13/01/23 | 0+050 | RHS | 150 | 1455 | 19.3 | 1385 | 24.7 | 105 | 78 |
| 613/S/22 | 13/01/23 | 0+090 | LHS | 150 | 1413 | 18.8 | 1385 | 24.7 | 102 | 76 |
| 614/S/22 | 13/01/23 | 0+090 | CL | 150 | 1454 | 20.0 | 1385 | 24.7 | 105 | 81 |
| 615/S/22 | 13/01/23 | 0+090 | RHS | 150 | 1399 | 19.3 | 1385 | 24.7 | 101 | 78 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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