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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.2106/35/L/10 Date: 3rd April, 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.** 2133/S/2023

**3. Sample Description:** Subbase Layer 7. **Date fee paid:** 29/03/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4127939

**5. Date Sample received:** 29/03/2023 9. **Date Analysis started**: 29/03/2023

**10. Additional information provided by the customer:** Construction of Bottom Loading Facility DS10 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**  **T180**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| **Subbase Layer Km 0+140-0+249** | | | | | | | | | | |
| 818/S/22 | 29/03/23 | 0+160 | CL | 140 | 1623 | 18.3 | 1656 | 18.5 | 98 | 99 |
| 819/S/22 | 29/03/23 | 0+170 | RHS | 150 | 1590 | 16.5 | 1656 | 18.5 | 96 | 89 |
| 820/S/22 | 29/03/23 | 0+200 | LHS | 135 | 1573 | 19.2 | 1656 | 18.5 | 95 | 104 |
| **Subbase Layer Km 0+000-0+140** | | | | | | | | | | |
| 821/S/22 | 29/03/23 | 0+020 | LHS | 150 | 1590 | 15.0 | 1656 | 18.5 | 96 | 81 |
| 822/S/22 | 29/03/23 | 0+030 | RHS | 145 | 1639 | 16.7 | 1656 | 18.5 | 99 | 90 |
| 823/S/22 | 29/03/23 | 0+050 | CL | 150 | 1623 | 15.9 | 1656 | 18.5 | 98 | 86 |
| 824/S/22 | 29/03/23 | 0+080 | LHS | 135 | 1656 | 17.4 | 1656 | 18.5 | 100 | 94 |
| 825/S/22 | 29/03/23 | 0+090 | RHS | 150 | 1606 | 18.7 | 1656 | 18.5 | 97 | 101 |
| 826/S/22 | 29/03/23 | 0+100 | LHS | 150 | 1639 | 17.9 | 1656 | 18.5 | 99 | 97 |
| 827/S/22 | 29/03/23 | 0+120 | CL | 145 | 1656 | 16.5 | 1656 | 18.5 | 100 | 89 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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