# 

# **REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

Telegraphic Address: “MINWORKS”, Nairobi Materials Testing & Research Division Telephone: Nairobi 0202554950 Machakos Road, Industrial Area Fax: 554877 P.O. Box 11873 – 00400 E-mail: chiefengineer@mtrd.go.ke NAIROBI

Ref No. M.1501/35/L/10 Date: 19th January, 2023

|  |
| --- |
| **Laboratory Test Report** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Customer’s Details:** RESIDENT ENGINEER KeNHA  **E-mail:** rd.nairobi@kenha.co.ke  **Address:** P.O. Box 200-00507 NRB **Phone:** 0725420651  **2. Customer Contact:** 0725420651 6. **Job Card No.** 1519/S/2023  **3. Sample Description:** Base Layer 7. **Date fee paid:** 18/01/2023  **4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115856  **5. Date Sample received:** 18/01/2023 9. **Date Analysis started**:18/01/2023  **10. Additional information provided by the customer:** Performance based Maintenance of Muthaiga-Kiambu (B32) road.   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **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+050-1+375 Base Layer LHS/RHS Shoulder** | | | | | | | | | | | | 624/S/22 | 18/01/23 | 1+075 | LHS | 150 | 1793 | 16.7 | 1750 | 18.4 | 102 | 91 | | 625/S/22 | 18/01/23 | 1+175 | LHS | 150 | 1749 | 16.6 | 1750 | 18.4 | 100 | 90 | | 626/S/22 | 18/01/23 | 1+275 | LHS | 150 | 1760 | 16.8 | 1750 | 18.4 | 102 | 91 | | 627/S/22 | 18/01/23 | 1+350 | LHS | 150 | 1792 | 16.4 | 1750 | 18.4 | 102 | 89 | | 628/S/22 | 18/01/23 | 1+075 | RHS | 150 | 1800 | 17.0 | 1750 | 18.4 | 103 | 92 | | 629/S/22 | 18/01/23 | 1+175 | RHS | 150 | 1778 | 16.9 | 1750 | 18.4 | 102 | 92 | | 630/S/22 | 18/01/23 | 1+275 | RHS | 150 | 1769 | 17.3 | 1750 | 18.4 | 101 | 94 | | 631/S/22 | 18/01/23 | 1+350 | RHS | 150 | 1777 | 17.5 | 1750 | 18.4 | 102 | 95 | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

**…………………. …………………..**