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**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT FOR ROADS**

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Materials Testing & Research Division

Along Machakos Road, Industrial Area

P.O. Box 11873 – 00400,

NAIROBI

Ref. No: **M.1030/35/L10 14th December 2023**

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| **Laboratory Test Report** |

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| --- | --- | --- | --- |
| **Client’s Name:** | **NAIROBI CITY COUNTY/AFROTICK HOLDING LIMITED** | | |
| **Client’s E-mail:** | **info@nairobi.go.ke** | | |
| **Client’s Address:** | **NOT PROVIDED** | **Client’s Mobile No:** | **0717548477** |
| **Sample Description:** | **SUBBASE LAYER** | **Job Card No:** | **1321/S/2023** |
| **Sampled by:** | **MTRD STAFF** | **Date fee paid:** | **06/12/2023** |
| **Date Sample received:** | **05/12/2023** | **GOK MR No.** | **4388710** |
| **Date Analysis started:** | **05/12/2023** | **Amount Paid:** | **7,750Ksh** |
| **Additional information provided by the customer:** | **CONSTRUCTION AND DRAINAGE IMPROVEMENTON MAJENGO AND KAMUKUNJI ROADS.** | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IN-SITU DENSITY TESTS USING SAND REPLACEMENT METHOD** | | | | | | | | | | |
| **Sample No.** | **Date tested** | **Testing Location** | **Offset (metres from LHS)** | **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 0+000-0+080 FW** | | | | | | | | | | |
| 858/S/23 | 05/12/23 | 0+025 | RHS | 150 | 1631 | 16.9 | 1701 | 16.7 | 96 | 101 |
| 859/S/23 | 05/12/23 | 0+065 | LHS | 150 | 1671 | 14.2 | 1701 | 16.7 | 98 | 85 |
| ***Note:*** *The results are specific to the sample(s) tested.* | | | | | | | | | | |

**Eng. J.M. Mbarua**

**FOR: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils laboratory**

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