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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.1014/35/L10 08th December 2023**

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| **Laboratory Test Report** |

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| --- | --- | --- | --- |
| **Client’s Name:** | **FELCOS CONSTRUCTION AND SUPPLIES LIMITED** | | |
| **Client’s E-mail:** | **Not Provided** | | |
| **Client’s Address:** | **P.O BOX 22246-005051 NRB** | **Client’s Mobile No:** | **0729856284** |
| **Sample Description:** | **SUBBASE LAYER** | **Job Card No:** | **1285/S/2023** |
| **Sampled by:** | **MTRD STAFF** | **Date fee paid:** | **01/12/2023** |
| **Date Sample received:** | **01/12/2023** | **GOK MR No.** | **4388678** |
| **Date Analysis started:** | **01/12/2023** | **Amount Paid:** | **5,050Ksh** |
| **Additional information provided by the customer:** | **REHABILITATION OF JONSAGA ESTATE ROADS TO CABRO STANDARDS.** | | |

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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+096 FW** | | | | | | | | | | |
| 772/S/23 | 01/12/23 | 0+020 | RHS | 150 | 1533 | 20.0 | 1560 | 21.8 | 98 | 92 |
| 773/S/23 | 01/12/23 | 0+060 | CL | 150 | 1515 | 19.8 | 1560 | 21.8 | 97 | 91 |
| 774/S/23 | 01/12/23 | 0+090 | LHS | 150 | 1494 | 18.6 | 1560 | 21.8 | 96 | 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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