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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.1091/35/L10 22nd December 2023**

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| **Laboratory Test Report** |

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| --- | --- | --- | --- |
| **Client’s Name:** | **RFS GROUP LIMITED** | | |
| **Client’s E-mail:** | **rfsgroupltd@gmail.com** | | |
| **Client’s Address:** | **P.O BOX 50569-00200 NRB** | **Client’s Mobile No:** | **0706347104** |
| **Sample Description:** | **BASE COURSE LAYER** | **Job Card No:** | **1398/S/2023** |
| **Sampled by:** | **MTRD STAFF** | **Date fee paid:** | **20/12/2023** |
| **Date Sample received:** | **19/12/2023** | **GOK MR No.** | **4388772** |
| **Date Analysis started:** | **19/12/2023** | **Amount Paid:** | **8,950Ksh** |
| **Additional information provided by the customer:** | **ROUTINE MAINTANANCE OF JNC 18B-JNC16-JNC15- MOKOIYET PICNIC SITE – JNC 14B-JNC8 ROAD WITHIN NAIROBI NATIONAL PARK.** | | |

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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 (%)** |
| **JNC 14B – JNC 8 ROAD FROM KM 8+800 - 9+400 BASE** | | | | | | | | | | |
| 895/S/23 | 19/12/2023 | 8+900 | LHS | 150 | 1596 | 14.8 | 1582 | 15.9 | 101 | 93 |
| 896/S/23 | 19/12/2023 | 9+300 | RHS | 151 | 1561 | 13.6 | 1582 | 15.9 | 99 | 86 |
| **JNC 18B – JNC 16 ROAD FROM KM 0+000 - 3+400 BASE** | | | | | | | | | | |
| 897/S/23 | 20/12/2023 | 0+400 | RHS | 150 | 1550 | 14.7 | 1582 | 15.9 | 98 | 92 |
| 898/S/23 | 20/12/2023 | 1+200 | LHS | 148 | 1552 | 14.5 | 1582 | 15.9 | 100 | 91 |
| 899/S/23 | 20/12/2023 | 2+100 | CL | 149 | 1593 | 14.0 | 1582 | 15.9 | 101 | 88 |
| 900/S/23 | 20/12/2023 | 3+000 | RHS | 150 | 1566 | 14.1 | 1582 | 15.9 | 99 | 89 |
| ***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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