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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.025/35/L/10 Date: 5th July, 2023

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**1. Customer’s Details:** MR DUNCAN KARANJA.

**E-mail:** **duncankaranja37@gmail.com**

**Address: Not provided** **Phone:** 0718331369

**2. Customer Contact:**0718331369 6. **Job Card No.** 008/S/2023

**3. Sample Description:** Subgrade Layer 7. **Date fee paid:** 03/07/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4053796

**5. Date Sample received:** 03/07/2023 9. **Date Analysis started**: 03/07/2023

**10. Additional information provided by the customer:** Proposed residential house on LR NO.195/228/47.

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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**  **T99**  **Kg/m3** | **Optimum moisture content (%)** | **Relative Compaction (%)** | **Relative moisture content (%)** |
| 001/S/23 | 3/07/23 | Walkway |  | 150 | 1300 | 23.1 | 1305 | 24.6 | 100 | 94 |
| 002/S/23 | 3/07/23 | Gazebo drive way |  | 150 | 1296 | 23.3 | 1305 | 24.6 | 99 | 95 |
| 003/S/23 | 3/07/23 | Main parking |  | 150 | 1293 | 20.0 | 1305 | 24.6 | 99 | 81 |
| 004/S/23 | 3/07/23 | Entry parking |  | 150 | 1240 | 20.3 | 1305 | 24.6 | 95 | 83 |
| 005/S/23 | 3/07/23 | Entry driveway |  | 150 | 1250 | 22.1 | 1305 | 24.6 | 96 | 90 |
| 006/S/23 | 3/07/23 | Entrance |  | 150 | 1262 | 23.9 | 1305 | 24.6 | 97 | 97 |

**Eng: J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**