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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.1424/35/L/10 Date: 13th January, 2023

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**1. Customer’s Details:** LOCKHEED CONSTRUCTION AND LOGISTICS LIMITED.

**E-mail:** lockheedconstruction&logistics@gmail.com

**Address:** P.O.BOX 527-00100 NRB **Phone:** 0706976517

**2. Customer Contact:** 0706976517 6. **Job Card No.** 1413/S/2023

**3. Sample Description:** Formation Layer 7. **Date fee paid:** 06/01/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115761

**5. Date Sample received:** 06/01/2023 9. **Date Analysis started**: 06/01/2023

**10. Additional information provided by the customer:** Opening up of Road Corridor for Gatundu Town Roads.

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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 (%)** |
| **Formation Layer Km 0+000-0+800 FW** | | | | | | | | | | |
| 553/S/22 | 06/01/23 | 0+280 | LHS | 149 | 1737 | 16.5 | 1710 | 18.7 | 102 | 88 |
| 554/S/22 | 06/01/23 | 0+570 | CL | 151 | 1728 | 17.0 | 1710 | 18.7 | 101 | 91 |
| 555/S/22 | 06/01/23 | 0+890 | RHS | 150 | 1770 | 17.4 | 1710 | 18.7 | 104 | 93 |
| 556/S/22 | 06/01/23 | 1+190 | LHS | 150 | 1743 | 17.8 | 1710 | 18.7 | 102 | 95 |
| 557/S/22 | 06/01/23 | 1+480 | CL | 150 | 1764 | 16.9 | 1710 | 18.7 | 103 | 90 |
| 558/S/22 | 06/01/23 | 1+770 | RHS | 150 | 1748 | 17.5 | 1710 | 18.7 | 102 | 94 |
| 559/S/22 | 06/01/23 | 0+670 | LHS | 148 | 1748 | 16.9 | 1710 | 18.7 | 102 | 90 |
| 560/S/22 | 06/01/23 | 0+560 | CL | 150 | 1699 | 16.8 | 1710 | 18.7 | 99 | 90 |
| 561/S/22 | 06/01/23 | 0+440 | RHS | 151 | 1750 | 17.3 | 1710 | 18.7 | 102 | 93 |
| 562/S/22 | 06/01/23 | 0+320 | CL | 150 | 1734 | 17.1 | 1710 | 18.7 | 101 | 91 |
| 563/S/22 | 06/01/23 | 0+200 | RHS | 150 | 1738 | 16.7 | 1710 | 18.7 | 102 | 89 |
| 564/S/22 | 06/01/23 | 0+080 | CL | 151 | 1725 | 18.0 | 1710 | 18.7 | 101 | 96 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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