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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.1504/35/L/10 Date: 14th February, 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.**

**3. Sample Description:** Subgrade 1 Layer 7. **Date fee paid:**

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

**5. Date Sample received:** 16/01/2023 9. **Date Analysis started**: 16/01/2023

**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 (%)** |
| **Subgrade 1 Layer Km 0+000-0+800 FW** | | | | | | | | | | |
| 553/S/22 | 16/01/23 | 0+100 | RHS | 145 | 1496 | 18.2 | 1710 | 18.7 | 101 | 96 |
| 554/S/22 | 16/01/23 | 0+250 | Cl | 150 | 1520 | 17.4 | 1710 | 18.7 | 102 | 92 |
| 555/S/22 | 16/01/23 | 0+400 | LHS | 150 | 1499 | 16.7 | 1710 | 18.7 | 101 | 88 |
| 556/S/22 | 16/01/23 | 0+550 | RHS | 145 | 1485 | 16.8 | 1710 | 18.7 | 100 | 89 |
| 557/S/22 | 16/01/23 | 0+700 | CL | 150 | 1489 | 16.2 | 1710 | 18.7 | 100 | 86 |
| 558/S/22 | 16/01/23 | 0+850 | LHS | 150 | 1471 | 15.2 | 1710 | 18.7 | 99 | 80 |
| 559/S/22 | 16/01/23 | 1+000 | CL | 140 | 1544 | 14.9 | 1710 | 18.7 | 104 | 79 |
| 560/S/22 | 16/01/23 | 1+150 | RHS | 150 | 1523 | 18.0 | 1710 | 18.7 | 103 | 95 |
| 561/S/22 | 16/01/23 | 1+300 | LHS | 140 | 1500 | 15.9 | 1710 | 18.7 | 101 | 84 |
| 562/S/22 | 16/01/23 | 1+450 | CL | 150 | 1477 | 18.6 | 1710 | 18.7 | 99 | 98 |
| 563/S/22 | 16/01/23 | 1+600 | RHS | 140 | 1512 | 18.0 | 1710 | 18.7 | 102 | 95 |
| 564/S/22 | 16/01/23 | 1+750 | LHS | 130 | 1544 | 15.2 | 1710 | 18.7 | 104 | 80 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**