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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.1570/35/L/10 Date: 27th 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.** 1578/S/2023

**3. Sample Description:** Subgrade II Layer 7. **Date fee paid:** 25/01/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115911

**5. Date Sample received:** 26/01/2023 9. **Date Analysis started**: 26/01/2023

**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 II Layer Km 0+000-0+800 FW** | | | | | | | | | | |
| 657/S/22 | 26/01/23 | 0+050 | RHS | 150 | 1474 | 18.5 | 1485 | 18.9 | 98 | 97 |
| 658/S/22 | 26/01/23 | 0+200 | LHS | 150 | 1544 | 15.3 | 1485 | 18.9 | 104 | 81 |
| 659/S/22 | 26/01/23 | 0+350 | CL | 145 | 1515 | 14.9 | 1485 | 18.9 | 102 | 79 |
| 660/S/22 | 26/01/23 | 0+500 | RHS | 145 | 1470 | 16.1 | 1485 | 18.9 | 99 | 85 |
| 661/S/22 | 26/01/23 | 0+650 | CL | 150 | 1515 | 14.9 | 1485 | 18.9 | 102 | 79 |
| 662/S/22 | 26/01/23 | 0+800 | LHS | 150 | 1530 | 16.3 | 1485 | 18.9 | 103 | 86 |
| 663/S/22 | 26/01/23 | 0+950 | CL | 150 | 1485 | 15.9 | 1485 | 18.9 | 100 | 84 |
| 664/S/22 | 26/01/23 | 1+100 | RHS | 150 | 1530 | 18.1 | 1485 | 18.9 | 103 | 96 |
| 665/S/22 | 26/01/23 | 1+250 | LHS | 150 | 1500 | 17.8 | 1485 | 18.9 | 101 | 94 |
| 666/S/22 | 26/01/23 | 1+400 | RHS | 150 | 1544 | 16.8 | 1485 | 18.9 | 104 | 89 |
| 667/S/22 | 26/01/23 | 1+450 | CL | 150 | 1470 | 15.7 | 1485 | 18.9 | 99 | 83 |
| 668/S/22 | 26/01/23 | 1+700 | LHS | 150 | 1515 | 18.3 | 1485 | 18.9 | 102 | 97 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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