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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.1456/35/L/10 Date: 13th January, 2023

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**1. Customer’s Details:** THIKA MUNICIPALITY.

**E-mail:** Not Provided

**Address:** P.O.BOX 2344-00900 KIAMBU **Phone:** 0722742062

**2. Customer Contact:** 0722742062 6. **Job Card No.** 1424/S/2023

**3. Sample Description:** Subgrade Layer 7. **Date fee paid:** 10/01/2023

**4. Sampled by:** MTRD Staff. 8. **GOK MR No**. 4115771

**5. Date Sample received:** 09/01/2023 9. **Date Analysis started**: 09/01/2023

**10. Additional information provided by the customer:** Proposed Construction of JKUAT Gate A-Uchumi Junction in Juja(Thika Municipality).

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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 Layer Km 0+450-0+850 FW** | | | | | | | | | | |
| 579/S/22 | 09/01/23 | 0+470 | CL | 149 | 1412 | 14.5 | 1407 | 15.5 | 100 | 94 |
| 580/S/22 | 09/01/23 | 0+520 | RHS | 151 | 1411 | 15.3 | 1407 | 15.5 | 100 | 99 |
| 581/S/22 | 09/01/23 | 0+570 | LHS | 150 | 1401 | 14.4 | 1407 | 15.5 | 100 | 93 |
| 582/S/22 | 09/01/23 | 0+620 | CL | 150 | 1392 | 13.9 | 1407 | 15.5 | 99 | 90 |
| 583/S/22 | 09/01/23 | 0+670 | RHS | 150 | 1472 | 14.6 | 1407 | 15.5 | 105 | 94 |
| 584/S/22 | 09/01/23 | 0+725 | LHS | 150 | 1461 | 15.1 | 1407 | 15.5 | 104 | 97 |
| 585/S/22 | 09/01/23 | 0+770 | CL | 148 | 1446 | 14.0 | 1407 | 15.5 | 103 | 90 |
| 586/S/22 | 09/01/23 | 0+820 | RHS | 150 | 1438 | 14.9 | 1407 | 15.5 | 102 | 96 |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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