

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.342/35/L/10 Date:15th August, 2023

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| **Laboratory Test Report** |

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| 1. **Customer’s Details:** RESIDENT ENGINEER KeNHA   **E-mail:** rd.nairobi@kenha.co.ke  **Address:** P.O. Box 200-00507 NRB Phone: 0713141871  **2. Customer Contact:** 0713141871 6. Job Card No.344/S/2023  **3. Sample Description:** Gravel 7. Date fee paid: 10/08/2023  **4. Sampled by:** CLIENT. 8. GOK MR No.4058603  **5. Date Sample received:** 10/08/2023 9. Date Analysis started: 10/08/2023  **10. Additional information provided by the customer:** Routine maintenance and spot improvement of Kamukuru-Elangata (B51) Road.  **Source:** Km 20+800 RHS B/pit   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **TEST RESULTS** | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Grading** | | | | | | **Atterberg Limits** | | | | | **Compaction T180** | | **CBR** | | | **% Passing BS Sieve Size (mm)** | | | | | | **LL** | **PL** | **PI** | **LS** | **PM** | **MDD** | **OMC** | **4days Soak**  **(%)** | **Swell** | | **20** | **10** | **5** | **2** | **0.425** | **0.075** | **%** | **%** | **%** | **%** |  | **Kg/m3** | **( % )** | **(%)** | | 184/S/23 | Gravel | 100 | 65 | 49 | 33 | 12 | 6 | 50 | 32 | 18 | 9 | 216 | 1912 | 12.2 | 45 | 0.1 | | **SOIL COMPOSITION: Gravel =67%, Sand =27%, Silt/clay =6%** | | | | | | | | | | | | | | | |

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**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

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

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