

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.932/35/L/10 Date: 16th November, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** HAMUL LIMITED.  **E-mail:** Not provided  **Address:** P.O BOX 35145-00100 NRB Phone: 0726873030  **2. Customer Contact:** 0726873030 6. Job Card No. 1115/S/2023  **3. Sample Description:** Gravel 7. Date fee paid: 30/10/2023  **4. Sampled by:** Client. 8. GOK MR No.4367970  **5. Date Sample received:** 26/10/2023 9. Date Analysis started:07/11/2023  **10. Additional information provided by the customer:** Improvement of Access to Acacia Road  **Source:** Kitengela     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Grading** | | | | | | | | | | **Atterberg Limits** | | | | | | | | | **Compaction T180** | | | **CBR** | | | % Passing BS Sieve Size (mm) | | | | | | | | | | LL | | PL | | PI | LS | | PM | |  | OMC( % ) | | 4days Soak  (%) | Swell(%) | | 20 | | 10 | | 5 | 2 | | 0.425 | | 0.075 | % | | % | | % | % | |  | | MDD Kg/m3 | | 687/S/23 | Quarry Waste | 100 | | 79 | | 63 | 51 | | 33 | | 22 | 50 | | 37 | | 13 | 6 | | 429 | | 1720 | 15.5 | | 30 | 0.3 | | **SOIL COMPOSITION: Gravel = 49%, Sand = 29%, Silt/clay =22%** | | | | | | | | | | | | | | | | | | | | | | | | | 688/S/23 | Soft Rock | 100 | 63 | | 45 | | 34 | 26 | | 22 | | 36 | 24 | | 12 | | 6 | 312 | | 1246 | | 31.9 | 20 | | 0.2 | | **SOIL COMPOSITION: Gravel = 66%, Sand = 12%, Silt/clay =22%** | | | | | | | | | | | | | | | | | | | | | | | | | 689/S/23 | Quarzatic Gravel | 100 | 76 | | 57 | | 40 | 19 | | 11 | | 40 | 26 | | 14 | | 7 | 266 | | 2060 | | 8.0 | 35 | | 0.3 | | **SOIL COMPOSITION: Gravel = 60%, Sand = 29%, Silt/clay =11%** | | | | | | | | | | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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