

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

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Ref No. M.2299/35/L/10 Date: 16th May, 2023

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| **Laboratory Test Report** |

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| **1. Customer’s Details:** COUNTY GOVERNMENT OF KIAMBU.  **E-mail:** patmbukia2@gmail.com  **Address:** P.O BOX 2344-00900 KIAMBU **Phone:** 0712780510  **2. Customer Contact:** 0712780510 6. **Job Card No.** 2411/S/2023  **3. Sample Description:** Gravel & Alignment Soil 7. **Date fee paid:** 03/05/2023  **4. Sampled by:** Client. 8. **GOK MR No**. 4052865  **5. Date Sample received:** 03/05/2023 9. **Date Analysis started**: 04/04/2023  **10. Additional information provided by the customer:** Construction and upgrading of Makongeni bus park in Thika Sub- County. Source: Along the Parking Area.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Grading** | | | | | | **Atterberg Limits** | | | | | **Compaction T180 & T99** | | **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 | | 937/S/23 | Point C existing Gravel E2 | 100 | 87 | 68 | 48 | 28 | 22 | 39 | 23 | 16 | 8 | 448 | 1720 | 12.7 | 40 | 0.1 | | **SOIL COMPOSITION: Gravel =52%, Sand=26%, Silt/clay=22%** | | | | | | | | | | | | | | | | 938/S/23 | Alignment entrance A | 100 | 96 | 86 | 73 | 52 | 39 | 33 | 18 | 14 | 7 | 728 | 1650 | 14.7 | 21 | 0.3 | | **SOIL COMPOSITION: Gravel=27%, Sand=34%, Silt/clay=39%** | | | | | | | | | | | | | | | | 939/S/23 | Alignment B centre of stage | 100 | 92 | 81 | 63 | 42 | 34 | 41 | 26 | 15 | 7 | 630 | 1385 | 13.6 | 22 | 0.2 | | **SOIL COMPOSITION: Gravel = 37%, Sand = 29%, Silt/clay =34%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

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