

**REPUBLIC OF KENYA**

**MINISTRY OF ROADS AND TRANSPORT**

**STATE DEPARTMENT OF ROADS**

Telegraphic Address: “MINWORKS”, Nairobi Materials Testing & Research Division Telephone: Nairobi 0202554950 Machakos Road, Industrial Area Fax: 554877 P.O. Box 11873 – 00400 E-mail: [chiefengineer@mtrd.go.ke](mailto:chiefengineer@mtrd.go.ke) **NAIROBI**

Ref No. M.2650/35/L/10 Date: 4th July, 2023

|  |
| --- |
| **Laboratory Test Report** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Customer’s Details:** COUNTY GOVERNMENT OF KIAMBU  **E-mail: cgktransportdirectorate@gmail.com**  **Address:** P.O BOX 2344-00900 KIAMBU Phone: 0721485343  **2. Customer Contact:** 0721485343 6. Job Card No. 2830/S/2023  **3. Sample Description:** Gravel 7. Date fee paid: 06/06/2023  **4. Sampled by:** Client. 8. GOK MR No.4053739  **5. Date Sample received:** 23/06/2023 9. Date Analysis started:27/06/2023  **10. Additional information provided by the customer:** Kiambu Buspark.     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | 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 | | 1099/S/22 | Karibaribi Quarry 200m off access Road | 100 | 86 | 66 | 49 | 44 | 43 | 44 | 29 | 15 | 8 | 660 | 1651 | 14.0 | 40 | 0.35 | | **SOIL COMPOSITION: Gravel = 51%, Sand = 6%, Silt/clay =43%** | | | | | | | | | | | | | | | | 1114/S/22 | Karibaribi Quarry 50 m off access Road | 100 | 90 | 70 | 53 | 41 | 35 | 42 | 25 | 17 | 8 | 697 | 1892 | 14.0 | 40 | 0.30 | | **SOIL COMPOSITION: Gravel = 47%, Sand = 18%, Silt/clay =35%** | | | | | | | | | | | | | | | | 1115/S/22 | Riabai Quarry | 100 | 88 | 77 | 66 | 48 | 39 | 47 | 31 | 16 | 8 | 768 | 1737 | 15.5 | 45 | 0.35 | | **SOIL COMPOSITION: Gravel = 34%, Sand =27%, Silt/clay =39%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

**………………. …………………….**