

**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.687/35/L/10 Date: 4th October, 2023

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Customer’s Details:** RESIDENT ENGINEER, KENHA NAIROBI REGION.  **E-mail:** rd.nairobi@kenha.co.ke  **Address:** P.O BOX 200-00507 NRB **Phone:** 0713141871  **2. Customer Contact:**0713141871 6. **Job Card No.** 540/S/2023  **3. Sample Description:** Gravel 7. **Date fee paid:** 01/09/2023  **4. Sampled by:** Client. 8. **GOK MR No**. 4058781  **5. Date Sample received:**01/09/2023 9. **Date Analysis started**: 15/09/2023  **10. Additional information provided by the customer: Routine maintenance and improvement of Namanga-Amboseli A5 Junction Kimana (B54)**     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | TEST RESULTS | | | | | | | | | | | | | | | | | | **Sample No.** | **Reference** | **Dosage**% | **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 | | 257/S/23 | Km 24+900-25+460 | Neat | 100 | 86 | 74 | 65 | 37 | 12 | 28 | 20 | 8 | 4 | 296 | 1650 | 14.5 | 30 | 0.3 | | **SOIL COMPOSITION: Gravel = 35%, Sand = 53%, Silt/clay =12%** | | | | | | | | | | | | | | | | 258/S/23 | Km 24+460-26+020 | Neat | 100 | 85 | 76 | 68 | 38 | 10 | 26 | 20 | 6 | 3 | 228 | 1644 | 15.1 | 30 | 0.3 | | **SOIL COMPOSITION: Gravel =32 %, Sand = 58%, Silt/clay =10%** | | | | | | | | | | | | | | | |

**Eng. J. M. Mbarua**

**For: CHIEF ENGINEER (MATERIALS)**

**OiC Soils Laboratory CSE Soils Laboratory**

**……………………….. ……………………………**