



MATERIAL TESTING LABORATORY
MILITARY ENGINEER SERVICES (MES)
TEST RESULT FOR FINENESS MODULUS(F.M.) OF SAND.

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Job No : 67/2025-2026 (Sand).
Name of Clint : AGE (Navy) Kaptai.
Ref ltr no : CEN/208 of 2024-2025/11/E-6 Dt.01 Jan'2026.
Project Name : Construction of SMBK.
Sample Specimen : Sylhet Sand.
Dt of sample collection : 04 Jan'2026
Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retained(gms) | Percentage Material Retained(Round) | Cumulative % Retained | %Finer | Remarks |
|------------|------------------------------|-------------------------------------|-----------------------|--------|----------|
| # 4 | 1.7 | 0.43 | 0.43 | | |
| # 8 | 25.61 | 6.40 | 6.83 | | |
| #16 | 64.82 | 16.21 | 23.03 | | |
| # 30 | 164.2 | 41.05 | 64.08 | | |
| # 50 | 121.32 | 30.33 | 94.41 | | FM= 2.88 |
| #100 | 19.29 | 4.82 | 99.24 | | |
| # 200 | 2.38 | 0.60 | .. | | |
| #Pan | 0.53 | 0.13 | ... | | |
| | | | Σ= 288.02 | | |

Cautions :

- 1 Samples as supplied to the laboratory have been tested. The laboratory authority does not bear any responsibility as to the representative character of the sample to be tested.
- 2 It is recommended that samples are sent in a sealed cover/packet/container under signature of the competent authority
- 3 In order to be avoid fraudulent fabrication of the test result ,it is recommended that test reports should be collected by duly authorized person and not by the contractor/supplier.

Observation on Specimen(if any):

1

Laboratory Technician

Test Performed By

Vetted By

Permissable Value:

- 1.For Sylhet/Domar sand minimum FM will be = 2.50
- 2.For Local sand minimum FM will be = 1.5
- 3.For Vitty sand minimum FM will be = 0.80



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Job No : 67/-2025(Sand).
Name of Clint : AGE (Navy) Kaptai.
Ref ltr no : CEN/208 of 2024-2025/11/E-6 Dt.01 Jan'2026.
Project Name : Construction of SMBK.
Sample Specimen : Local Sand (As per letter-1.20)
Dt of sample collection : 04 Jan'2026
Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retained(gms) | Percentage Material Retained(Round) | Cumulative % Retained | %Finer | Remarks |
|------------|------------------------------|-------------------------------------|-----------------------|--------|----------|
| # 4 | 0 | 0.00 | 0.00 | | |
| # 8 | 0 | 0.00 | 0.00 | | |
| #16 | 0.4 | 0.10 | 0.10 | | |
| # 30 | 2.8 | 0.70 | 0.80 | | |
| # 50 | 213.95 | 53.49 | 54.29 | | FM= 1.50 |
| #100 | 160.8 | 40.20 | 94.49 | | |
| # 200 | 16.94 | 4.24 | .. | | |
| #Pan | 4.85 | 1.21 | ... | | |
| | | | Σ= 149.68 | | |

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Observation on Specimen(if any):

1

Laboratory Technician

Test Performed By

Vetted By

Permissible Value:

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Job No : 67/2024-2025(Sand).
Name of Clint : AGE (Navy) Kaptai.
Ref ltr no : CEN/208 of 2024-2025/11/E-6 Dt.01 Jan'2026.
Project Name : Construction of SMBK.
Sample Specimen : Local Sand
Dt of sample collection : 04 Jan'2026

Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retained(gms) | Percentage Material Retained(Round) | Cumulative % Retained | %Finer | Remarks |
|------------|------------------------------|-------------------------------------|-----------------------|--------|----------|
| # 4 | 0 | 0.00 | 0.00 | | |
| # 8 | 4.22 | 1.06 | 1.06 | | |
| #16 | 65.35 | 16.34 | 17.39 | | |
| # 30 | 70.42 | 17.61 | 35.00 | | |
| # 50 | 95.12 | 23.78 | 58.78 | | FM= 1.97 |
| #100 | 105.95 | 26.49 | 85.27 | | |
| # 200 | 52.93 | 13.23 | .. | | |
| #Pan | 5.84 | 1.46 | ... | | |
| | | | Σ= 197.49 | | |

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Observation on Specimen(if any):

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Laboratory Technician

Test Performed By

Vetted By

Permissible Value:

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- 3.For Vitty sand minimum FM will be = 0.80