



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

Page No: 56

Copy no : 01

Job No : 66(D)/2025-2026 (Sand).  
Name of Clint : GE (Army) Sylhet.  
Ref Itr no : PDCAS/05 of 2025-2026/25/E-6 Dt.13 Oct'2025.  
Project Name : Construction of 1 x 112 OR'S Qtr.  
Sample Specimen : Sylhet Sand.  
Dt of sample collection : 16 Oct'2025  
Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retainned(gms) | Percentage Matarial Retained(Round) | Cumulative % Retained | %Finer | Remarks  |
|------------|-------------------------------|-------------------------------------|-----------------------|--------|----------|
| # 4        | 3.78                          | 0.95                                | 0.95                  |        |          |
| # 8        | 17.53                         | 4.38                                | 5.33                  |        |          |
| #16        | 70.52                         | 17.63                               | 22.96                 |        |          |
| # 30       | 140.16                        | 35.04                               | 58.00                 |        |          |
| # 50       | 104.47                        | 26.12                               | 84.12                 |        | FM= 2.67 |
| #100       | 47.58                         | 11.90                               | 96.01                 |        |          |
| # 200      | 15.99                         | 4.00                                | ..                    |        |          |
| #Pan       | 0.00                          | 0.00                                | ...                   |        |          |
|            |                               |                                     | $\Sigma= 267.35$      |        |          |

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 oder 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

Permissible 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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Page No: 56

Copy no : 02

Job No : 50/-2025(Sand).  
Name of Clint : GE (Army) Sylhet.  
Ref Itr no : PDCAS/05 of 2025-2026/25/E-6 Dt.13 Oct'2025.  
Project Name : Construction of 1 x 112 OR'S Qtr.  
Sample Specimen : Local Sand  
Dt of sample collection : 16 Oct'2025  
Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retainned(gms) | Percentage Matarial Retained(Round) | Cumulative % Retained | %Finer | Remarks  |
|------------|-------------------------------|-------------------------------------|-----------------------|--------|----------|
| # 4        | 0                             | 0.00                                | 0.00                  |        |          |
| # 8        | 0                             | 0.00                                | 0.00                  |        |          |
| #16        | 1.02                          | 0.26                                | 0.26                  |        |          |
| # 30       | 7.92                          | 1.98                                | 2.24                  |        |          |
| # 50       | 216.63                        | 54.16                               | 56.39                 |        | FM= 1.56 |
| #100       | 163.29                        | 40.82                               | 97.22                 |        |          |
| # 200      | 10.16                         | 2.54                                | ..                    |        |          |
| #Pan       | 0.72                          | 0.18                                | ...                   |        |          |
|            |                               |                                     | $\Sigma= 156.10$      |        |          |

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Observation on Specimen(if any):

1

Laboratory Technician

Test Performed By

Vetted By

Permissible Value:

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Page No: 42  
Copy no : 02

Job No : 07/2024-2025(Sand).  
Name of Clint : GE (Army) Sylhet.  
Ref Itr no : PDCAS/05 of 2025-2026/25/E-6 Dt.13 Oct'2025.  
Project Name : Construction of 1 x 112 OR'S Qtr.  
Sample Specimen : Local Sand  
Dt of sample collection : 16 Oct'2025

Test Standard : ASTM/BS

| Sieve Size | Wt of Material Retainned(gms) | Percentage Matarial 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                                | ...                   |        |          |
|            |                               |                                     | $\Sigma= 197.49$      |        |          |

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**Observation on Specimen(if any):**

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Laboratory Technician

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**Permissible Value:**

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