



MILITARY ENGINEER SERVICES (MES)

MES
Material Testing
Laboratory

MATERIAL TESTING LABORATORY

Mobile: 01769-012888, <http://mes.org.bd>

TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

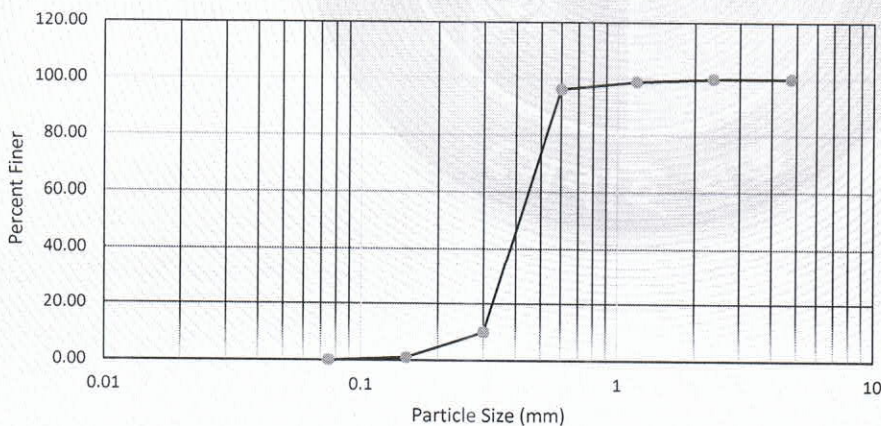
Sieve Analysis and Grain Size Distribution of Sand (ASTM C136)

Job No : 105/2025-2026 (Sand).
 Reference: : CEA/663 of 2016-2017/20/E-6 Dt.23 Jun'2026.
 Sample send by : GE (Army) Sylhet.
 Project : Construction of Earth filling & Land development.
 Sample : Local Sand
 Date of Sample collection : 24 Jun'2026
 Date of Test : 24 Jun'2026

TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	0	0.00	0.00	100.00	FM = 1.33
2.360	0.46	0.12	0.12	99.89	
1.180	3.7	0.93	1.04	98.96	
0.600	11.19	2.80	3.84	96.16	
0.300	135.88	33.97	37.81	10.00	
0.150	210.63	52.66	90.47	1.00	
0.075	32.66	8.17	..	0.00	
#Pan	4.85	1.21	...	0.00	
Total	399.37	99.84	Σ= 133.27		

Gradation Chart



Report Prepared by :

MD IKBAL HOSSEN

SAE B/R

AHQ E in C's Br

Wks Dte, Dhaka Cantt.

Test Performed by :

AHASAN HABIB

AE B/R

Actg SO-III (Lab)

AHQ E in C's Br

Wks Dte, Dhaka Cantt.

Countersigned by :

MD ATIKUR RAHMAN

MAJOR

OIC (Lab)

AHQ E in C's Br

Wks Dte, Dhaka Cantt.

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

