



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

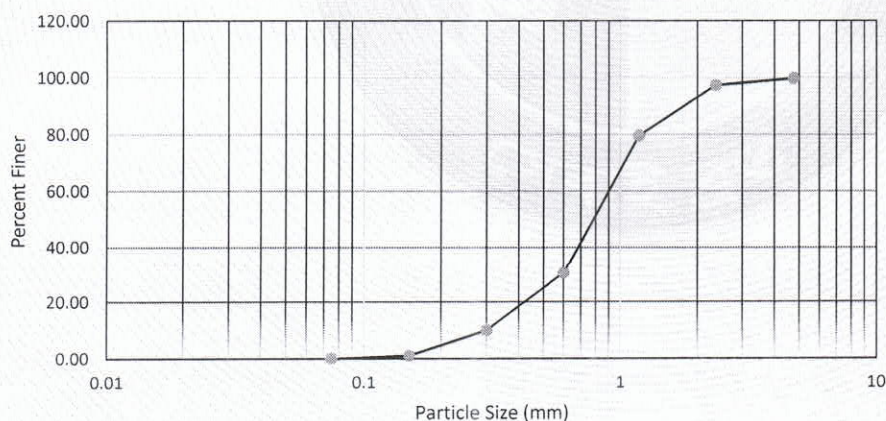
Sieve Analysis and Grain Size Distribution of Sand (ASTM C136)

Job No : 106/2025-2026 (Sand).
Reference: : CEA/413 of 2025-2026/22/E-6 Dt.23 Jun'2026.
Sample send by : GE (Army) Sylhet.
Project : Construction of 1 X 104 OR's Family Qtr.
Sample : Sylhet 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	0.34	0.09	0.09	99.92	FM = 2.89
2.360	9.92	2.48	2.57	97.44	
1.180	71.08	17.77	20.34	79.67	
0.600	197	49.25	69.59	30.42	
0.300	106.76	26.69	96.28	10.00	
0.150	14	3.50	99.78	1.00	
0.075	0.72	0.18	..	0.00	
#Pan	0	0.00	...	0.00	
Total	399.82	99.96	$\Sigma = 288.62$		

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

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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

