



MILITARY ENGINEER SERVICES (MES)

M E S
Material Testing
Laboratory

MATERIAL TESTING LABORATORY

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

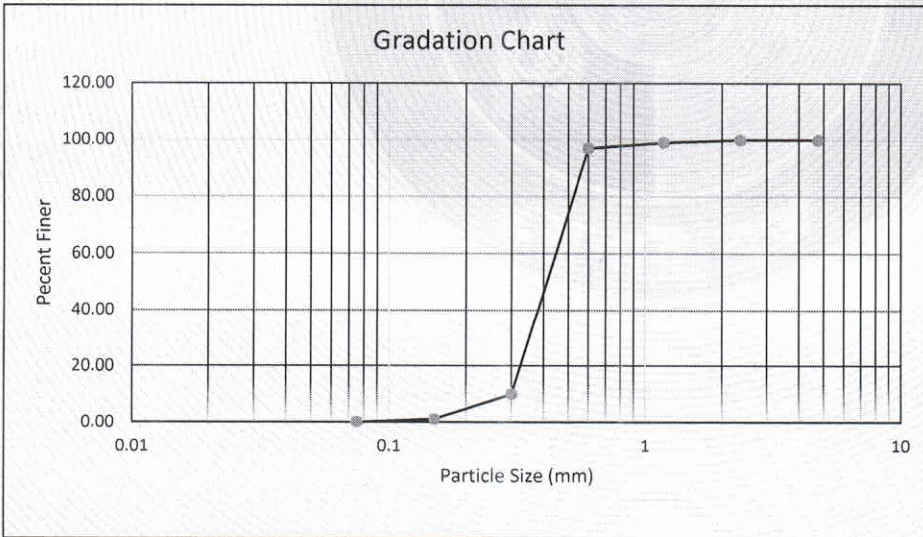
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 101/2025-2026 (Sand).
Reference: : CE Air/24 of 2025-2026/68/E-6 Dt.21 May'2026.
Sample send by : GE (Air) Tejgaon, Dhaka.
Project : Construction of 1 x Hangar for Accommodation 12 x MI-17 Helicopter.
Sample : Local Sand (As per letter FM 1.00).
Date of Sample collection : 23 May'2026
Date of Test : 24 May'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 = 1.53
2.360	0.06	0.02	0.02	99.99	
1.180	3.8	0.95	0.97	99.04	
0.600	8.25	2.06	3.03	96.97	
0.300	202.06	50.52	53.54	10.00	
0.150	165.91	41.48	95.02	1.00	
0.075	17.27	4.32	..	0.00	
#Pan	2.58	0.65	...	0.00	
Total	399.93	99.98	Σ= 152.57		



Report Prepared by :

MD IKBAL HOSEN

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

