



MILITARY ENGINEER SERVICES (MES)

MES
Material Testing
Laboratory

MATERIAL TESTING LABORATORY

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

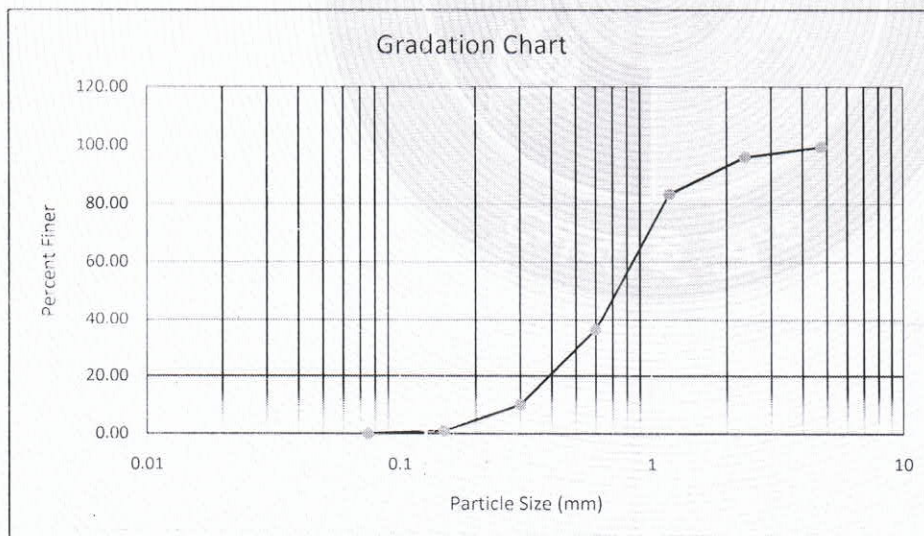
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 03/2026-2027 (Sand).
Reference: : EINC/15 of 2025-2026/26/E-6 Dt.29 Jun'2026.
Sample send by : GE (Navy) North Chattogram.
Project : Construction of Bangladesh Navy Technical Institute Building.
Sample : Sylhet Sand.
Date of Sample collection : 05 Jul'2026
Date of Test : 06 Jul'2026

TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	2.5	0.63	0.63	99.38	FM = 2.83
2.360	13.79	3.45	4.07	95.93	
1.180	50.77	12.69	16.77	83.24	
0.600	188.53	47.13	63.90	36.10	
0.300	136.4	34.10	98.00	10.00	
0.150	6.3	1.58	99.57	1.00	
0.075	1.1	0.28	..	0.00	
#Pan	0	0.00	...	0.00	
Total	399.39	99.85	$\Sigma = 282.93$		



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





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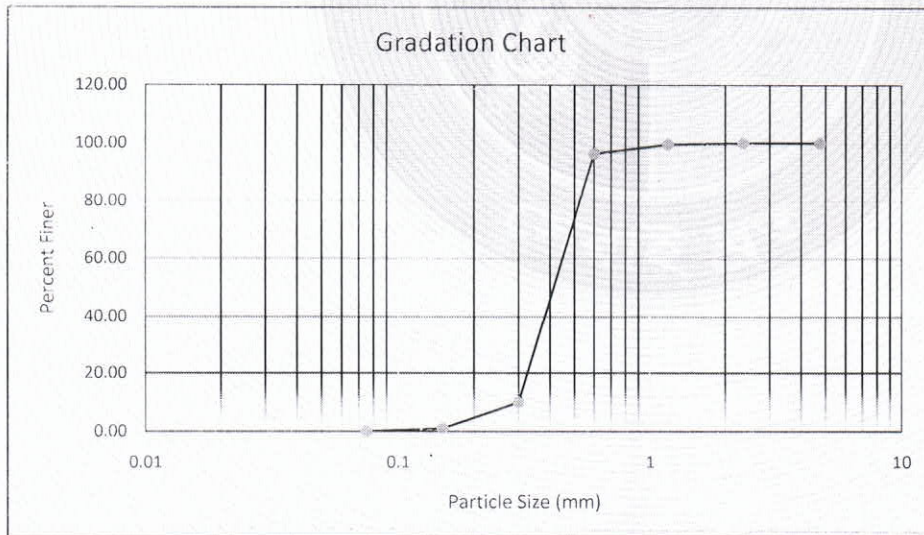
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Project : Construction of Bangladesh Navy Technical Institute Building.
Sample : Local Sand.
Date of Sample collection : 05 Jul'2026
Date of Test : 06 Jul'2026

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 = 1.56
2.360	0	0.00	0.00	100.00	
1.180	1.89	0.47	0.47	99.53	
0.600	12.77	3.19	3.67	96.34	
0.300	213.48	53.37	57.04	10.00	
0.150	152.1	38.03	95.06	1.00	
0.075	16.2	4.05	..	0.00	
#Pan	2.99	0.75	...	0.00	
Total	399.43	99.86	Σ= 156.23		



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