



# MILITARY ENGINEER SERVICES (MES)

MES  
Material Testing  
Laboratory

## MATERIAL TESTING LABORATORY

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

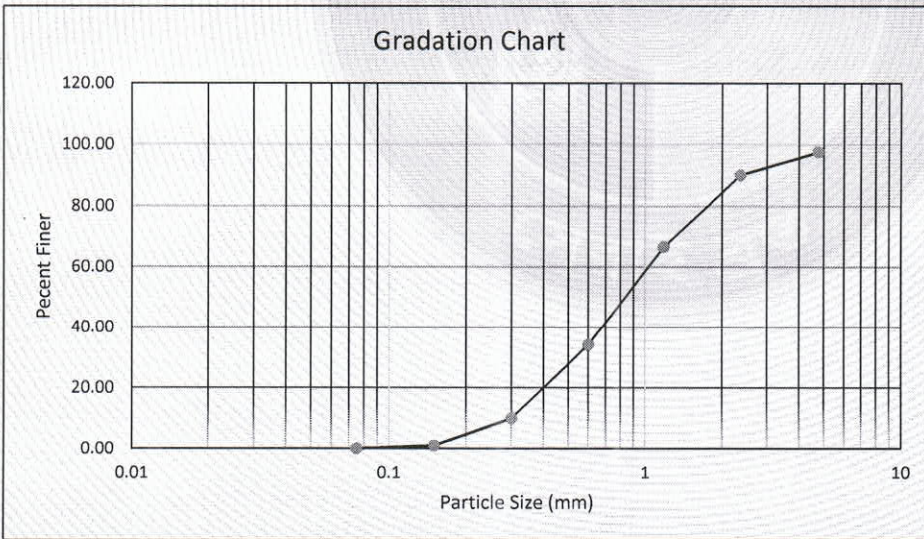
### TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 362(D)/2025-2026 (Sand).  
Reference: : CEN/76 of 2025-2026/13/E-6 Dt.14 May'2026.  
Sample send by : AGE (Navy) Kaptai.  
Project : Construction of Surface Drain & Sewerage.  
Sample : Sylhet Sand  
Date of Sample collection : 19 May'2026  
Date of Test : 20 May'2026

#### TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	9.72	2.43	2.43	97.57	FM = 3.02
2.360	29.95	7.49	9.92	90.08	
1.180	93.82	23.46	33.37	66.63	
0.600	129.79	32.45	65.82	34.18	
0.300	104.24	26.06	91.88	10.00	
0.150	26.84	6.71	98.59	1.00	
0.075	4.34	1.09	..	0.00	
#Pan	0.57	0.14	...	0.00	
Total	399.27	99.82	Σ= 302.01		



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

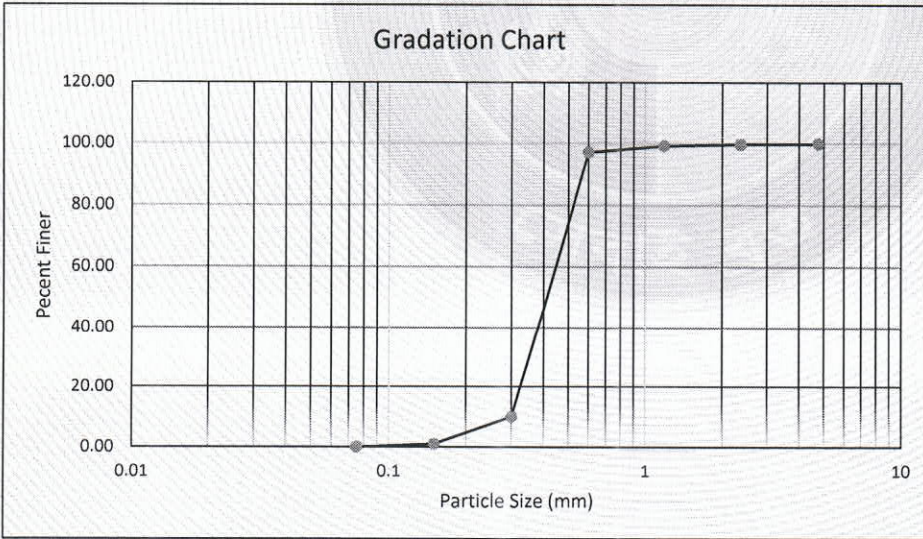
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Reference: : CEN/76 of 2025-2026/13/E-6 Dt.14 May'2026.  
Sample send by : AGE (Navy) Kaptai.  
Project : Construction of Surface Drain & Saverage.  
Sample : Local Sand  
Date of Sample collection : 19 May'2026  
Date of Test : 20 May'2026

#### 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 = 1.55
2.360	1.15	0.29	0.29	99.71	
1.180	1.9	0.48	0.76	99.24	
0.600	8.54	2.14	2.90	97.10	
0.300	215.27	53.82	56.72	10.00	
0.150	152.31	38.08	94.79	1.00	
0.075	18	4.50	..	0.00	
#Pan	1.86	0.47	...	0.00	
Total	399.03	99.76	Σ= 155.46		

Gradation Chart



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