



MILITARY ENGINEER SERVICES (MES)



MATERIAL TESTING LABORATORY

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

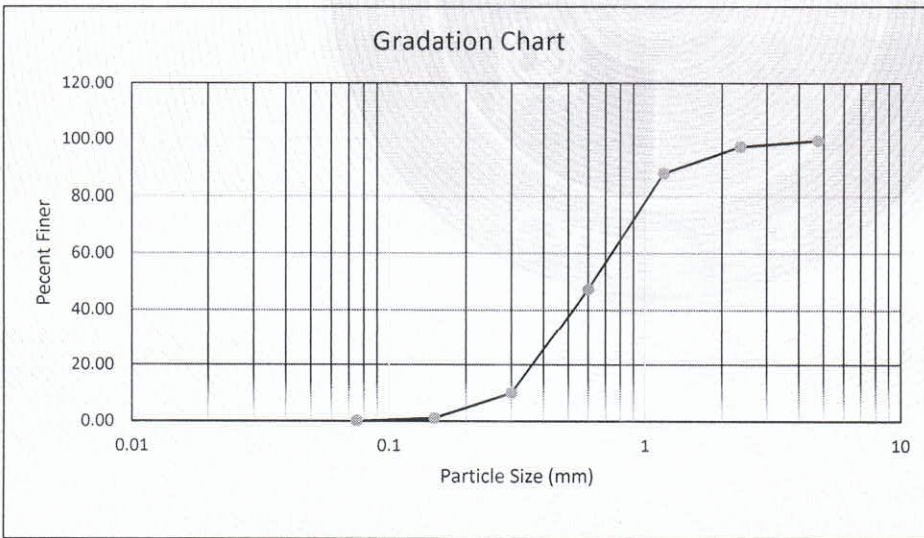
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 103/2025-2026 (Sand).
 Reference: : CEA/43 of 2025-2026/10/E-6 Dt.10 Jun'2026.
 Sample send by : GE (Army) Chattogram.
 Project : Construction of 1 x SMBK and CH/DH & Recreation Room.
 Sample : Sylhet Sand
 Date of Sample collection : 17 Jun'2026
 Date of Test : 19 Jun'2026

TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	1.75	0.44	0.44	99.56	FM = 2.59
2.360	8.48	2.12	2.56	97.44	
1.180	37.31	9.33	11.89	88.12	
0.600	162.85	40.71	52.60	47.40	
0.300	158.76	39.69	92.29	10.00	
0.150	28.29	7.07	99.36	1.00	
0.075	2.2	0.55	..	0.00	
#Pan	0.24	0.06	...	0.00	
Total	399.88	99.97	Σ= 259.13		



Report Prepared by :

MD IQBAL HOSSSEN

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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M E S
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Laboratory

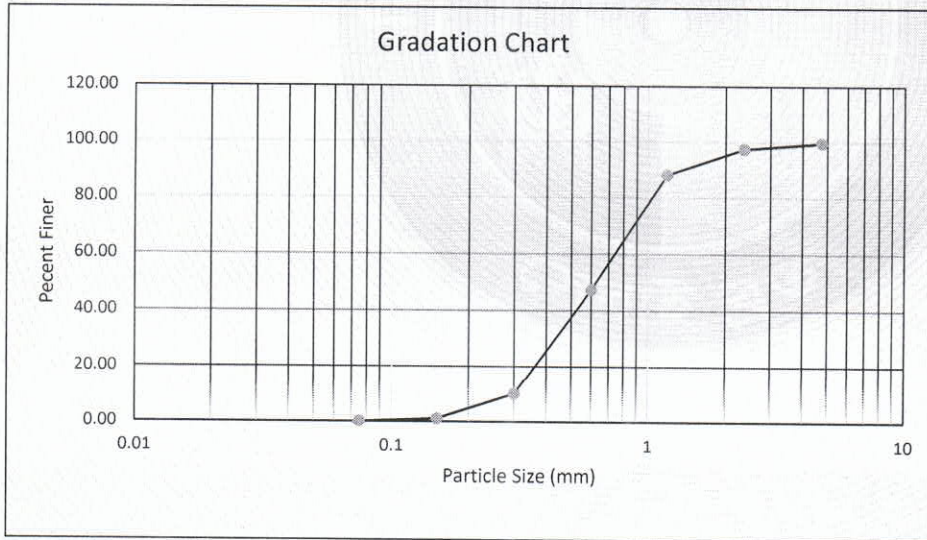
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Project : Construction of 1 x SMBK and CH/DH & Recreation Room.
Sample : Local Sand
Date of Sample collection : 17 Jun'2026
Date of Test : 19 Jun'2026

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 = 2.16
2.360	0	0.00	0.00	100.00	
1.180	14.82	3.71	3.71	96.30	
0.600	108.78	27.20	30.90	69.10	
0.300	213.8	53.45	84.35	10.00	
0.150	51.67	12.92	97.27	1.00	
0.075	7.2	1.80	..	0.00	
#Pan	2.74	0.69	...	0.00	
Total	399.01	99.75	Σ= 216.22		



Report Prepared by :

MD IKBAL HOSSEN

SAE B/R

AHQ E in C's Br

Wks Dte, Dhaka Cantt.

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