MILITARY ENGINEER SERVICES (MES)

MATERIAL TESTING LABORATORY

M E S
Material Testing
Laboratory

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

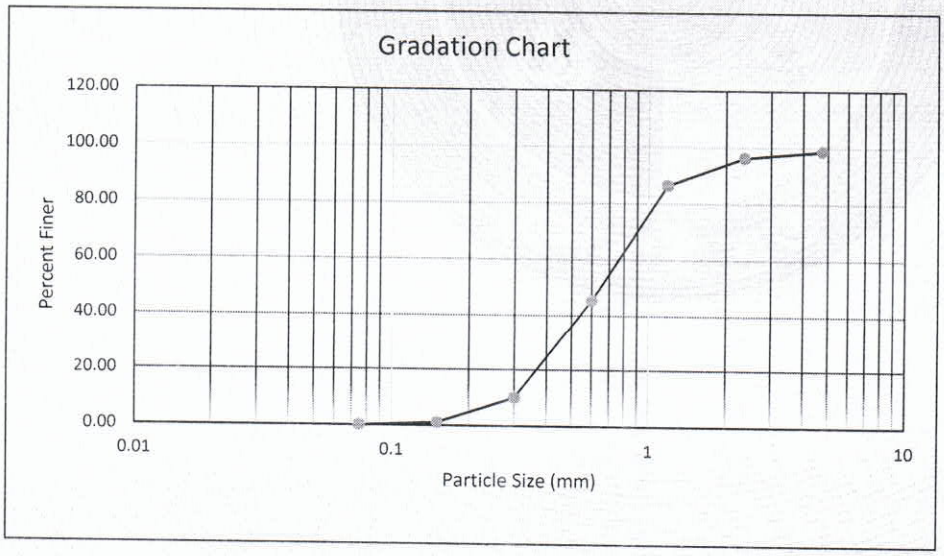
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 01/2026-2027 (Sand).
Reference: : CE Air/113 of 2025-2026/03/E-6 Dt.01 Jul'2026.
Sample send by : AGE (Air) Air HQ (U).
Project : Construction of Office Building.
Sample : Sylhet Sand
Date of Sample collection : 01 Jul'2026
Date of Test : 02 Jul'2026

TEST RESULTS

Sieve Size	Material Retainned	Percentage of Matarial Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	4.7	1.18	1.18	98.83	
2.360	9.9	2.48	3.65	96.35	
1.180	39.2	9.80	13.45	86.55	
0.600	164.6	41.15	54.60	45.40	
0.300	149.54	37.39	91.99	10.00	FM = 2.63
0.150	25.91	6.48	98.46	1.00	
0.075	5.9	1.48	..	0.00	
#Pan	0.12	0.03	...	0.00	
Total	399.87	99.97	Σ= 263.32		



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.

Material Testing Laboratory Military Engineer Services (MES)

Countersigned by :

MD ATIKUR RAHMAN
MAJOR
OIC (Lab)
AHQ E in C 's Br
Wks Dte, Dhaka Cantt.

Permissable 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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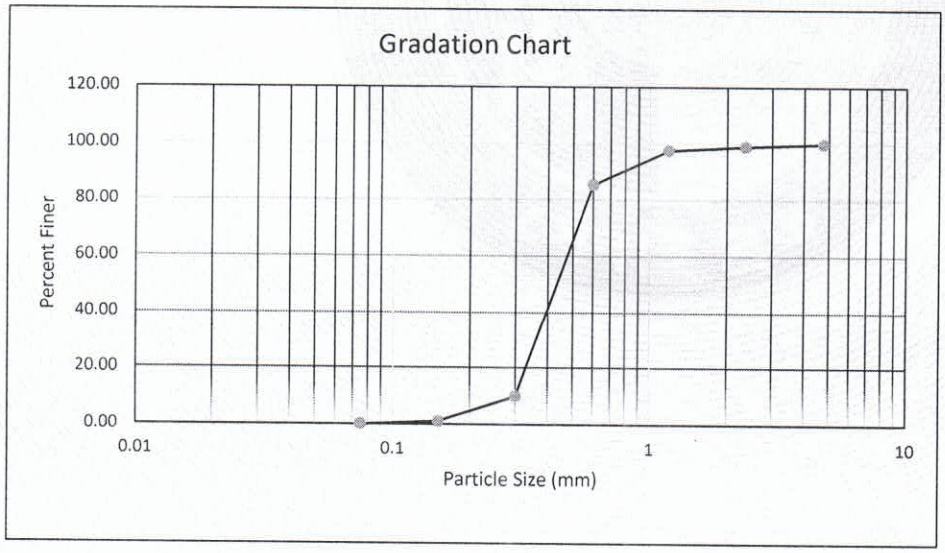
TEST RESULTS

Sieve Size	Material Retainned	Percentage of Matarial Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	0	0.00	0.00	100.00	
2.360	3.9	0.98	0.98	99.03	
1.180	5.81	1.45	2.43	97.57	
0.600	48.7	12.18	14.60	85.40	
0.300	221.2	55.30	69.90	10.00	FM = 1.80
0.150	88.1	22.03	91.93	1.00	
0.075	27.4	6.85	..	0.00	
#Pan	4.8	1.20	...	0.00	
Total	399.91	99.98	Σ= 179.84		



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