



MILITARY ENGINEER SERVICES (MES)



MATERIAL TESTING LABORATORY

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

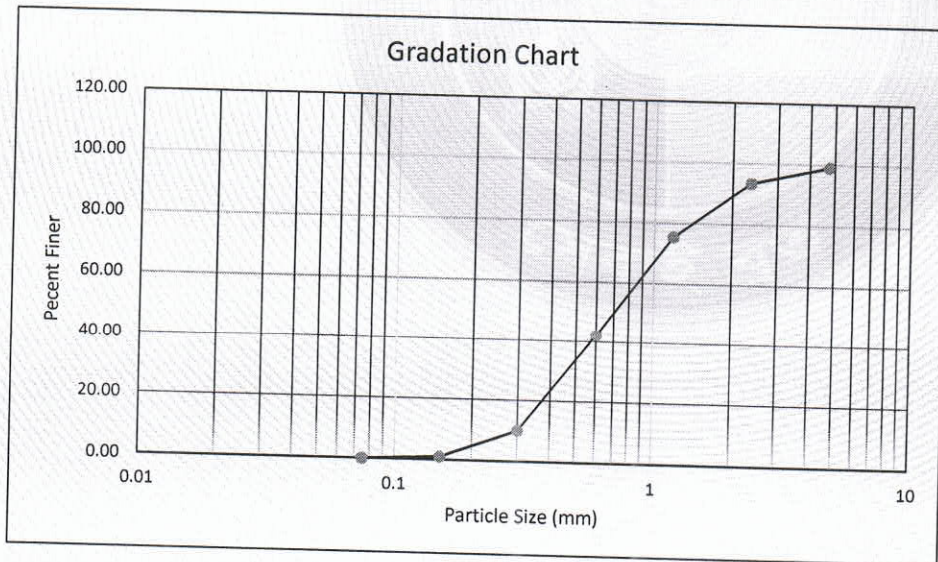
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 96/2025-2026 (Sand).
Reference: : CEN/43 of 2025-2026/14/E-6 Dt.28 Apr'2026.
Sample send by : GE (Navy) North, Chattogram.
Project : Construction of Main Gate, 1 x Sentry post & 1 x waiting room.
Sample : Sylhet Sand.
Date of Sample collection : 30 Apr'2026
Date of Test : 30 Apr'2026

TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	3.2	0.80	0.80	99.20	FM = 2.78
2.360	22.79	5.70	6.50	93.50	
1.180	72.45	18.11	24.61	75.39	
0.600	132.28	33.07	57.68	42.32	
0.300	129.84	32.46	90.14	10.00	
0.150	33.56	8.39	98.53	1.00	
0.075	3.87	0.97	..	0.00	
#Pan	1.4	0.35	...	0.00	
Total	399.39	99.85	$\Sigma = 278.26$		



Report Prepared by :

MD. IKBAL HOSSSEN
SAE B/R
AHQ E in C 's Br
Wks Dte, Dhaka Cantt.

Test Performed by :

AHASAB 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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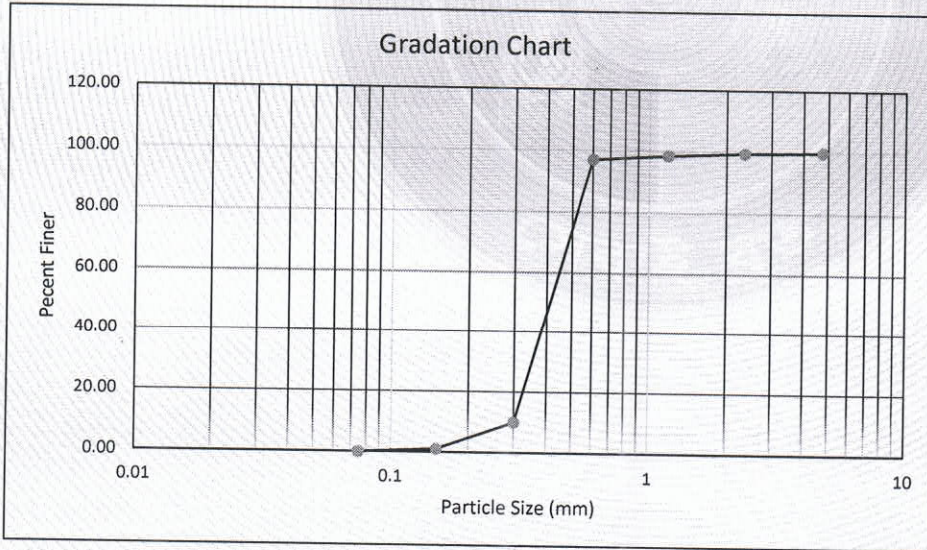
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Project : Construction of Main Gate, 1 x Sentry post & 1 x waiting room.
Sample : Local Sand.
Date of Sample collection : 30 Apr'2026
Date of Test : 30 Apr'2026

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 = 1.52
2.360	1.94	0.49	0.49	99.52	
1.180	3.34	0.84	1.32	98.68	
0.600	6.13	1.53	2.85	97.15	
0.300	192.28	48.07	50.92	10.00	
0.150	181.59	45.40	96.32	1.00	
0.075	13.32	3.33	..	0.00	
#Pan	1.14	0.29	...	0.00	
Total	399.74	99.94	Σ= 151.90		



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Countersigned by :


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MAJOR

OIC (Lab)
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Wks Dte, Dhaka Cantt.

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1. For Sylhet/Domar sand minimum FM will be = 2.50
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