



MILITARY ENGINEER SERVICES (MES)



MATERIAL TESTING LABORATORY

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

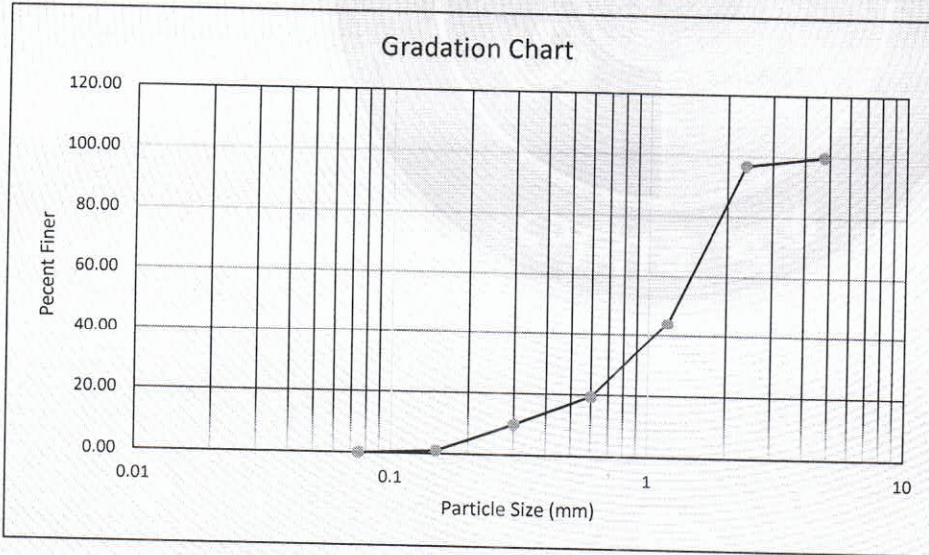
TEST RESULT FOR FINENESS MODULUS (F.M.) OF SAND

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

Job No : 98/2025-2026 (Sand).
Reference: : CEN/212 of 2024-2025/12/E-6 Dt.05 May'2026.
Sample send by : GE (Navy) South Chattogram.
Project : Construction of Boundary wall with Concertina Razor Wire.
Sample : Sylhet Sand.
Date of Sample collection : 07 May'2026
Date of Test : 07 May'2026

TEST RESULTS

Sieve Size	Material Retained	Percentage of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	
4.750	0.74	0.19	0.19	99.82	FM = 3.33
2.360	12.23	3.06	3.24	96.76	
1.180	210.98	52.75	55.99	44.01	
0.600	98.35	24.59	80.58	19.43	
0.300	53.37	13.34	93.92	10.00	
0.150	19.24	4.81	98.73	1.00	
0.075	4.02	1.01	..	0.00	
#Pan	0.44	0.11	...	0.00	
Total	399.37	99.84	$\Sigma = 332.64$		



Report Prepared by :

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

Test Performed by :

ANASIN 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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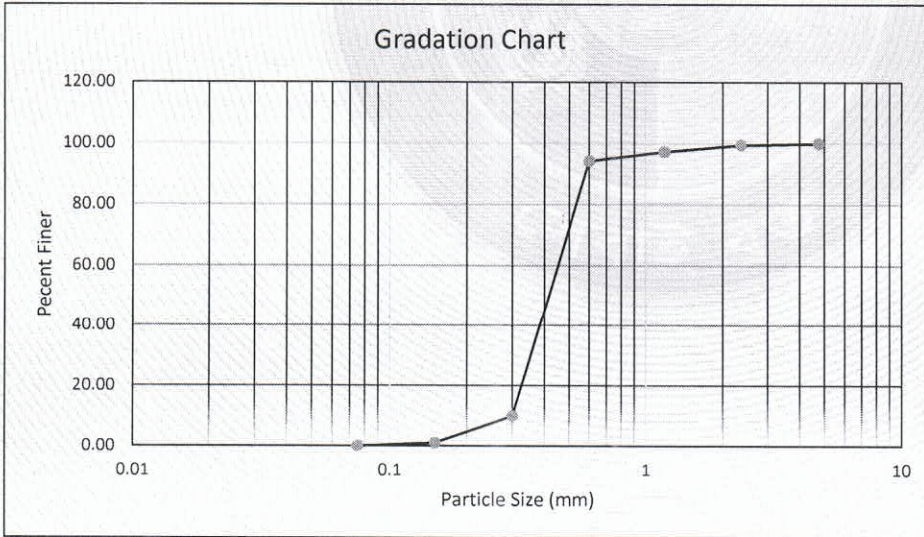
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Project : Construction of Boundary wall with Concertina Razor Wire.
Sample : Local Sand.
Date of Sample collection : 07 May'2026
Date of Test : 07 May'2026

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 = 1.53
2.360	2.01	0.50	0.50	99.50	
1.180	8.96	2.24	2.74	97.26	
0.600	12	3.00	5.74	94.26	
0.300	179.97	44.99	50.74	10.00	
0.150	170.31	42.58	93.31	1.00	
0.075	25.4	6.35	..	0.00	
#Pan	0.95	0.24	...	0.00	
Total	399.6	99.90	Σ= 153.04		



Report Prepared by :

MD IKBAL HOSSEN
SAE B/R
AHQ E in C's Br
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