



# MILITARY ENGINEER SERVICES (MES)

M E S  
Material Testing  
Laboratory

## MATERIAL TESTING LABORATORY

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

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

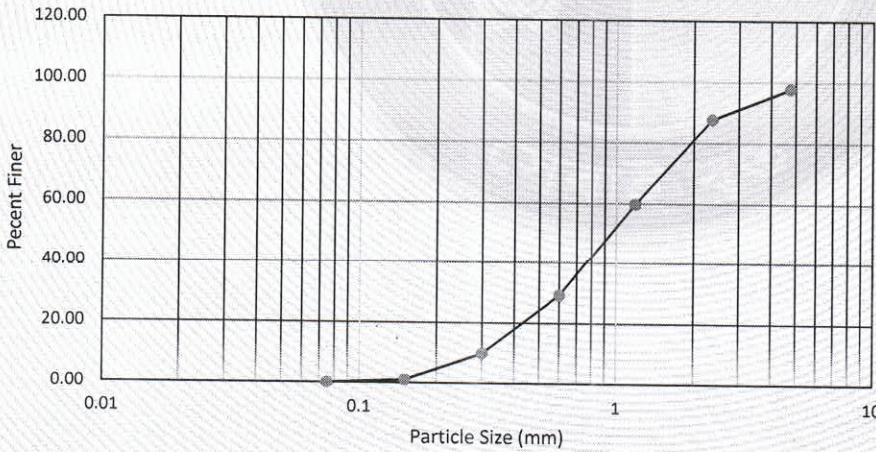
#### Sieve Analysis and Grain Size Distribution of Sand (ASTM C136)

Job No : 363(D)/2025-2026 (Sand).  
Reference: : CEN/125 of 2024-2025/26/E-6 Dt.14 May'2026.  
Sample send by : AGE (Navy) Kaptai.  
Project : Construction of 1 x Multipurpose Shed.  
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	9.06	2.27	2.27	97.74	FM = 3.15
2.360	40.51	10.13	12.39	87.61	
1.180	111.04	27.76	40.15	59.85	
0.600	122.58	30.65	70.80	29.20	
0.300	84.13	21.03	91.83	10.00	
0.150	23.64	5.91	97.74	1.00	
0.075	6.81	1.70	..	0.00	
#Pan	1.47	0.37	...	0.00	
Total	399.24	99.81	$\Sigma = 315.18$		

Gradation Chart



Report Prepared by :

  
MD IKBAL HOSSAIN

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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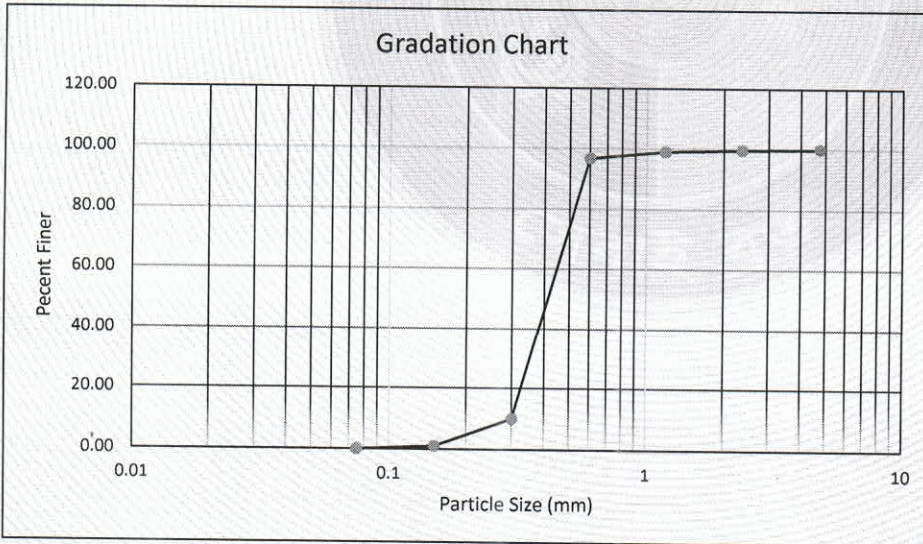
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Reference: : CEN/125 of 2024-2025/26/E-6 Dt.14 May'2026.  
Sample send by : AGE (Navy) Kaptai.  
Project : Construction of 1 x Multipurpose Shed.  
Sample : Local Sand.  
Date of Sample collection : 19 May'2026  
Date of Test : 20 May'2026

#### 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 = 1.61
2.360	1.49	0.37	0.37	99.63	
1.180	2.48	0.62	0.99	99.01	
0.600	9.04	2.26	3.25	96.75	
0.300	227.61	56.90	60.16	10.00	
0.150	146	36.50	96.66	1.00	
0.075	11.43	2.86	..	0.00	
#Pan	1.14	0.29	...	0.00	
Total	399.19	99.80	$\Sigma = 161.43$		

Gradation Chart



Report Prepared by :

MD IKBAL 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
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