

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
LOCAL GOVERNMENT ENGINEERING DEPARTMENT
QUALITY CONTROL LABORATORY
DISTRICT-RANGPUR

SPECIFIC GRAVITY & ABSORPTION TEST OF FINE AGGREGATE (ASTM C-128)

Ref.Memo No-UE/Pirganj/46.02.8576.000.99.00124-913-597 Date-22/05/2025

Client : Contractor-Barendra Construction Ltd, Rajshahi
 Location Construction of 301m.00m Long PSC Girder Bridge at Nundaha ghat over the Kartoa River, on road Chatra to Gilabari ghalat Ch-4500m, Upapazila-Pirganj, Dist- Rangpur.

Package No-CIB-Ran-W-27

Sample No :

Type of Specimen : 2.8 FM Sand

Sampled By : UE & SAE

Sampled Date :

Quantity Collected from Field :

Quantity represented :

Lab. Registration No. : P-490/61612

Date of test: 15/06/2025

Vol. of Pycnometer / Flask : 1000 mL Making the Specimen SSD : By Cone Test method for Surface Moisture.

Description	Test No.-1	Test No.-2	Test No.-3
Weight of SSD Specimen (S), gm	500.00		
Weight of Pycnometer with SSD Specimen & Water (C), gm	1896.50		
Temperature of Water (T); If other than 23 ± 1.7°C	25		
Specific Gravity of Water at Temperature T°C (G _T)		
Weight of Pycnometer filled with Water (B), gm	1591.00		
Weight of Oven-Dried Specimen (A), gm	490.00		
Bulk Specific Gravity, 23/23°C, = $A / (B+S-C) \times G_T / G_{23}$	2.52		
Bulk Specific Gravity (SSD), 23/23°C, = $S / (B+S-C) \times G_T / G_{23}$	2.57		
Apparent Specific Gravity, 23/23°C, = $A / (B+A-C) \times G_T / G_{23}$	2.66		
Water Absorption, = $\frac{(S-A)}{A} \times 100$, %	2.0		
Average Specific Gravity, 23/23°C,			
	Bulk / Bulk (SSD) / Apparent		
Average Water Absorption, %			

NOTE: Specific Gravity of Water at 24.5°C (G₂₄) = 0.9986

NOTE: As per ASTM average of three of three tests is not necessary, though provision is kept in the datasheet.

Tested by : Lab. Technician

Comments : Bulk Specific Gravity (SSD) of 2.58 FM Sand=2.8

Signature
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 Sub-Assistant Engineer (Lab)
 LGED, Rangpur

Signature
 22/04/20
 Assistant Engineer
 LOED, Rangpur.

Senior Assistant Engineer
 LGED, Rangpur.