



Government of the Peoples Republic of Bangladesh
Quality Control & Training Division, BRRL



DATA & REPORT SHEET

Memo No: LAB-25-05-20-03780-001-01

Date: 2025-05-20

Client : Comilla Road Division Lab Register No. : 107 (B) 2024-2025.
Tender No. : 1090449 Contract No. : e-GP/72/CRD/LTM/2024-2025
Tracking Number : LAB-25-05-20-03780 Sample Sent By : Client
Project/Work Name : Repair of Pavement Providing Single Bituminous Surface Treatment work at 10th km (p), 11th km (p), 19th km (p), 20th km (p), 22nd km (p), 23rd km (p), 24th km (p), 35th km (p) of Cumilla (Moinamati)-Brahmanbaria (Sarail) (N-102) under Road Division, Cu
Sample Collection From : From Stackyard Sample Source : Nill
Sample Sealing Status : Sealed Sample Collected By : EE (RHD)
Name of Test : BITUMEN ROUTINE TEST Test Code : BRRL
Item Name : Others
Test Method : ASTM
Associated Agency : M/S Zihan Enterprise Address: 471, Madina Masjid Road, 2 No Kandipara, Cumilla.
Date of sample receive : 17/05/2025 Date of Test : 19/05/2025
at Lab
Sample Description : Sample was supplied to the laboratory by Contractor's representative. Sample was carried in a pot. Amount of sample received is 7 kg approximately. Sample was sealed by Executive Engineer, RHD, Road Division, Cumilla.
Test Performed By : Akram Hossen Test Supervised By : Sheikh Nafiur Nur Mousum
Assistant Research Officer

BITUMEN ROUTINE TEST

Name of the test	Unit	Result	Comments	Test Code	Spec 60/70	Spec 80/100
Penetration @25°C (100g, 5s)	0.1mm	66		ASTM D-5	60 - 70	80/100
Softening Point	°C	48		ASTM D-36	48 - 56	45 - 52
Ductility (@25°C)	CM	100		ASTM D-113	≥ 100cm	≥ 100cm
Loss on heating	%(of wt)	0.08		ASTM D-6	≤ 0.2	≤ 0.5
Penetrating drop after heating	%	85.71		ASTM D-586	≥ 80	≥ 80
Flash point	°C	316		ASTM D-92	≥ 250	≥ 250
Specific Gravity @25/25°C						
Descriptions	Unit	Specimen #1	Specimen #2			
Weight of Pycnometer (+Stopper), A	gm	30.380				
Weight of Pycnometer +Water, B	gm	56.147				
Weight Pycnometer partially filled with Bitumen, C	gm	44.836				
Pycnometer+Bitmen+Water, D	gm	56.579				
Density of Water at 25 °C, G25	Kg/m ³	1000				
Temperature of Water (T); °C.	°C	25				
Density of Water at Temperature T °C(GT)	Kg/m ³	1000				
SP. Gravity=((C-A)/((B-A)-(D-C)))*(GT/G25)		1.0308				
Specific Gravity		1.0308				

Comment : Test was performed on the basis of supplied sample.

Test Performed By

20-May-2025

Akram Hossen
Assistant Research Officer(AC)
Quality Control & Training
Division, BRRL

Test Approved By

20-May-2025

Sheikh Nafiur Nur Mousum
Assistant Engineer
Quality Control & Training
Division, BRRL

Counter Signed By

20-May-2025

Jahangir Alam
Sub Divisional Engineer
Quality Control & Training
Division, BRRL

Counter Signed By

20-May-2025

Dewan Md. Abdul Kader
Executive Engineer(AC)
Quality Control & Training
Division, BRRL