



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



DATA & REPORT SHEET

Memo No: LAB-25-05-24-03795-001-01

Date: 2025-05-24

Client : Gazipur Road Division
Tender No. : 1094356
Tracking Number : LAB-25-05-24-03795
Project/Work Name : Repair of Damaged Pavement, depression/undulation by bituminous carpeting and Seal Coat Work at Ch. 18+800m to 18+600m, 20+500m to 20+600m, Ch.22+750m to 22+850m, Ch.28+500m to 28+800m & Ch.29+000m to 29+700 of Mawna-Fulbaria-Kaliakoir-Dhamrai-Nobinagar (

Lab Register No. : 118 (B) 2024-2025.
Contract No. : e-GP-58/LTM/GRD/2024-2025
Sample Sent By : Client

Sample Collection From : From Stackyard
Sample Sealing Status : Sealed
Name of Test : BITUMEN ROUTINE TEST
Item Name : Others
Test Method : ASTM
Associated Agency : M/S Chaity Enterprise, Chandana, Gazipur Sadar, Gazipur.
Date of sample receive : 21/05/2025
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, Gazipur.

Test Code : BRRL
Sample Collected By : EE (RHD)
Date of Test : 22/05/2025

Test Performed By : Akram Hossen
Assistant Research Officer
Test Supervised By : Sheikh Nafiur Nur Mousum

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	85		ASTM D-5	60 - 70	80/100
Softening Point	°C	46		ASTM D-36	48 - 56	45 - 52
Ductility (@25°C)	CM	100		ASTM D-113	≥ 100cm	≥ 100cm
Loss on heating	%(of wt)	0.06		ASTM D-6	≤ 0.2	≤ 0.5
Penetrating drop after heating	%	86.75		ASTM D-586	≥ 80	≥ 80
Flash point	°C	310		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	56.132				
Weight Pycnometer partially filled with Bitumen, C	gm	44.825				
Pycnometer+Bitmen+Water, D	gm	56.436				
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)		1.0215				
Specific Gravity		1.0215				

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

Test Performed By

26-May-2025

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

Test Approved By

26-May-2025

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

Counter Signed By

26-May-2025

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

Counter Signed By

26-May-2025

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