



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



DATA & REPORT SHEET

Memo No: LAB-25-03-12-03755-001-01

Date: 2025-03-12

Client : Dhaka, Banani Lab Register No. : 85 (B) 2024-2025.
Tender No. : 1040226 Contract No. : e-GP/LTM-06/EE/DRD/2024-2025
Tracking Number : LAB-25-03-12-03755 Sample Sent By : Client
Project/Work Name : Repair of Existing Surface, DBS Wearing Course & Road Marking at 1st km (P) & 2nd km (P) of 2nd Burigonga Bridge (Babu Bazar Bridge) Approach Road to National Highway N8 (N-802) under Dhaka Road Division During the year 2024-2025.
Sample Collection From : From Stackyard Sample Source : Nill
Sample Sealing Status : Sealed Sample Collected By : EE (RHD)
Name of Test : BITUMEN ROUTINE TEST
Item Name : Others Test Code : BRRL
Test Method : ASTM
Associated Agency : Orin Engineering Soluation, 23/2/1, Shah Ali Bag, Mirpur, Dhaka.
Date of sample receive : 10/03/2025 Date of Test : 11/03/2025
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 5 kg approximately. Sample was sealed by Executive Engineer, RHD, Dhaka Road Division, Dhaka.
Test Performed By : Akram Hossen Test Supervised By : Mst. Rupali Khatun
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	62		ASTM D-5	60 - 70	80/100
Softening Point	°C	49		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	%	90.32		ASTM D-586	≥ 80	≥ 80
Flash point	°C	320		ASTM D-92	≥ 250	≥ 250
Specific Gravity @25/25°C						
Descriptions	Unit	Specimen #1	Specimen #2			
Weight of Pycnometer (+Stopper), A	gm	30.449				
Weight of Pycnometer +Water, B	gm	56.428				
Weight Pycnometer partially filled with Bitumen, C	gm	45.760				
Pycnometer+Bitmen+Water, D	gm	56.752				
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)		1.0216				
Specific Gravity		1.0216				

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

Test Performed By

16-Mar-2025

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

Test Approved By

16-Mar-2025

Mst. Rupali Khatun
Assistant Engineer (AC)
Quality Control & Training
Division, BRRL

Counter Signed By

16-Mar-2025

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

Counter Signed By

16-Mar-2025

Shamima Yasmin
Executive Engineer
Quality Control & Training
Division, BRRL