



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



DATA & REPORT SHEET

Memo No: LAB-25-12-22-03847-001-01

Date: 2025-12-22

Client : Manikganj Road Division Lab Register No. : 24 (B) 2025-2026.  
Tender No. : 972478 Contract No. : DZ(e-GP)-09-Contract/Dev/2023-2024  
Tracking Number : LAB-25-12-22-03847 Sample Sent By : Client  
Project/Work Name : Construction of Approach Road with Necessary Protective Works, Saucer & Cross drain and other ancillary works at Zitka Bridge 13th KM (part) of Shibalay-Nayarkandi-Balla-Harirampur Road (Z-5066) and Diabari Bridge at 21st km. (Ch: 20+913m) on Baniajuri-Zi  
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 : Dhrubo Contruction Ltd, krishnapur, Pabna Sadar, Pabna  
Date of sample receive : 18/12/2025 Date of Test : 21/12/2025  
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 Manikganj Road Division.  
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	69		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)	0.09		ASTM D-6	≤ 0.2	≤ 0.5
Penetrating drop after heating	%	81.16		ASTM D-586	≥ 80	≥ 80
Flash point	°C	300		ASTM D-92	≥ 250	≥ 250
Specific Gravity @25/25°C						
Descriptions	Unit	Specimen #1	Specimen #2			
Weight of Pycnometer (+Stopper), A	gm	30.384				
Weight of Pycnometer +Water, B	gm	56.130				
Weight Pycnometer partially filled with Bitumen, C	gm	44.846				
Pycnometer+Bitmen+Water, D	gm	56.439				
Density of Water at 25 °C, G25	Kg/m <sup>3</sup>	1000				
Temperature of Water (T); °C.	°C	25				
Density of Water at Temperature T °C( GT )	Kg/m <sup>3</sup>	1000				
SP. Gravity= $((C-A)/((B-A)-(D-C)))*(GT/G25)$		1.0218				
Specific Gravity		1.0218				

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

Test Performed By

22-Dec-2025

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

Test Approved By

22-Dec-2025

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

Counter Signed By

22-Dec-2025

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

Counter Signed By

22-Dec-2025

Shamima Yasmin  
Executive Engineer  
Quality Control & Training  
Division, BRRL

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