



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

DATA & REPORT SHEET



Memo No: LAB-25-05-22-03789-001-01

Date: 2025-05-22

Client : Manikganj Road Division Lab Register No. : 115 (B) 2024-2025.
Tender No. : 1073207 Contract No. : 41/e-GP/EE/Mkg.Rd/2024-2025
Tracking Number : LAB-25-05-22-03789 Sample Sent By : Client
Project/Work Name : Single Bituminous Surface Treatment (SBST) with Repair work at Ch. 00+000 to 1+500 km Dashkandi Link Road of Dhaka (Mirpur)-Uthuli-Paturia National Highway (N-5) under Manikganj 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 Test Code : BRRL
Item Name : Others
Test Method : ASTM
Associated Agency : M/S R,P Construction Co, 23/A, Navana Garden, Kallayanpur, Dhaka.
Date of sample receive : 20/05/2025 Date of Test : 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, Manikganj.
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)	0.08		ASTM D-6	≤ 0.2	≤ 0.5
Penetrating drop after heating	%	82.61		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	30.370				
Weight of Pycnometer +Water, B	gm	56.141				
Weight Pycnometer partially filled with Bitumen, C	gm	44.827				
Pycnometer+Bitmen+Water, D	gm	56.581				
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)		1.0314				
Specific Gravity		1.0314				

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

Test Performed By

22-May-2025

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

Test Approved By

22-May-2025

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

Counter Signed By

22-May-2025

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

Counter Signed By

22-May-2025

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