



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



DATA & REPORT SHEET

Memo No: LAB-26-04-26-03892-001-01

Date: 2026-04-26

Client : Barguna Road Division Lab Register No. : 73 (B) 2025-2026.  
Tender No. : 1170681 Contract No. : BargRD/e-GP/01/OTM/PMP/2023-2024  
Re-Tender  
Tracking Number : LAB-26-04-26-03892 Sample Sent By : Client  
Project/Work Name : Dense Bituminous Surfacing-Wearing Course, Repair of potholes & Earthwork under Periodic Maintenance Programme (PMP-Roads) from Ch. 63+290 (Jaliaghata) to 67+890 (Kalmegha) km of Rajapur-Kathalia-Amua-Bamna-Patharghata Road (Z-8708) under Barguna Road Div  
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 : Md. Mahfug Khan Ltd, Dopdopia Zero Point, Nalchity Jhalokathi.  
Date of sample receive : 22/04/2026 Date of Test : 23/04/2026  
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, Road Division Barguna.  
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	68		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
Penetration of residue from loss on heating test at 25°C, 100g, 5 Sec, as compared to penetration before heating	%	84.31		ASTM D-5&6	≥ 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	30.369				
Weight of Pycnometer +Water, B	gm	56.132				
Weight Pycnometer partially filled with Bitumen, C	gm	44.831				
Pycnometer+Bitmen+Water, D	gm	56.294				
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= $((C-A)/((B-A)-(D-C)))*(GT/G25)$		1.0113				
Specific Gravity		1.0113				

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

Test Performed By

26-Apr-2026

Akram Hossen

Test Approved By

26-Apr-2026

Sheikh Nafiur Nur Mousum

Counter Signed By

26-Apr-2026

Mahbuba Akter

Counter Signed By

26-Apr-2026

Dewan Abul Kashem  
Mohammad Nahin Reza  
Executive Engineer  
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Assistant Research Officer(AC)  
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