



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

DATA & REPORT SHEET



Memo No: LAB-25-04-15-03761-001-01

Date: 2025-04-15

Client : Dhaka, Banani Lab Register No. : 92 (B) 2024-2025.
Tender No. : 733415 Contract No. : DZ(e-GP)-16-Contract/Dev/2022-2023
Tracking Number : LAB-25-04-15-03761 Sample Sent By : Client
Project/Work Name : Construction of 94.274m (3x30.488) Long P.C.Gride (Turag Bridge) at 1st K.M (Ch.00+067m) & 19.64m Long (1x18.30m) R.C.C Girder (Turag Uttarpara-Mugrakanda Bridge-1) (Ch.00+476m) of Turag-Ruhitpur-Bourity Road (Z-5069) under Dhaka Road Division during the
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 : National Development Engineers Ltd.- Hasan Techno Builders Ltd-JV
Date of sample receive : 10/04/2025 Date of Test : 13/04/2025
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, 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	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	%	85.51		ASTM D-586	≥ 80	≥ 80
Flash point	°C	316		ASTM D-92	≥ 250	≥ 250
Specific Gravity @25/25°C						
Descriptions	Unit	Specimen #1	Specimen #2			
Weight of Pycnometer (+Stopper), A	gm	30.373				
Weight of Pycnometer +Water, B	gm	56.136				
Weight Pycnometer partially filled with Bitumen, C	gm	44.825				
Pycnometer+Bitmen+Water, D	gm	56.316				
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)		1.0126				
Specific Gravity		1.0126				

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

Test Performed By

15-Apr-2025

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

Test Approved By

15-Apr-2025

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

Counter Signed By

15-Apr-2025

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

Counter Signed By

15-Apr-2025

Mohammad Wahiduzzaman
Executive Engineer
Quality Control & Training
Division, BRRL