



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

DATA & REPORT SHEET



Memo No: LAB-25-05-24-03794-001-01

Date: 2025-05-24

Client : Gazipur Road Division  
Tender No. : 1094536 & 1096810  
Tracking Number : LAB-25-05-24-03794  
Project/Work Name : Repair of Potholes & Overly Work and Rut Cutting and Filling by Wearing Course work of Dhaka (Banani)-Joydebpur-Mymensingh (N-3) under Gazipur Road Division during the year 2024-2025.  
Sample Collection From : From Stackyard  
Sample Sealing Status : Sealed  
Name of Test : BITUMEN ROUTINE TEST  
Item Name : Others  
Test Method : ASTM  
Associated Agency : Muhammad Aminul Haque (Pvt.) Ltd. 59/D/B-3, Flat #14/B-3, Darussalam Tower-2, Kallayanpur, Dhaka.  
Date of sample receive : 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, Gazipur.  
Test Performed By : Akram Hossen  
Assistant Research Officer  
Lab Register No. : 117 (B) 2024-2025.  
Contract No. : e-GP/63/Minor/GRD/2024-2025. e-GP/59/Minor/GRD/2024-2025  
Sample Sent By : Client  
Sample Source : Nill  
Sample Collected By : EE (RHD)  
Test Code : BRRL  
Date of Test : 22/05/2025  
Test Supervised By : Sheikh Nafiur Nur Mousum

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             | 94          |             | ASTM D-5   | 60 - 70    | 80/100      |
| Softening Point                                    | °C                | 45          |             | 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                     | %                 | 82.98       |             | 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                | 30.381      |             |            |            |             |
| Weight of Pycnometer +Water, B                     | gm                | 56.133      |             |            |            |             |
| Weight Pycnometer partially filled with Bitumen, C | gm                | 44.837      |             |            |            |             |
| Pycnometer+Bitmen+Water, D                         | gm                | 56.564      |             |            |            |             |
| 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)         |                   | 1.0307      |             |            |            |             |
| Specific Gravity                                   |                   | 1.0307      |             |            |            |             |

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

Test Performed By

26-May-2025

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

Test Approved By

26-May-2025

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

Counter Signed By

26-May-2025

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

Counter Signed By

26-May-2025

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