



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



DATA & REPORT SHEET

Memo No: LAB-26-04-22-03890-001-01

Date: 2026-04-22

Client : Feni Road Division Lab Register No. : 71 (B) 2025-2026.  
Tender No. : 1175003 Contract No. : eGP/Rev/OTM/PMPPRoad/FRD-12/2025-2026  
Tracking Number : LAB-26-04-22-03890 Sample Sent By : Client  
Project/Work Name : DBST work with necessary repair work at Chainage 0+000 to 11+243 of Chhagalnaiya-Muhuriganj Road (Z-1032) under Road Division Feni, during the year 2025-2026.  
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 Date of Test : 21/04/2026  
Test Method : ASTM  
Associated Agency : S.Ananta BikashTripura Limited.  
Date of sample receive at Lab : 19/04/2026  
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, Feni 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             | 65          |             | ASTM D-5   | 60 - 70    | 80/100      |
| Softening Point  | °C                | 49          |             | 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       |
| Penetration of residue from loss on heating test at 25°C, 100g, 5 Sec, as compared to penetration before heating | %                 | 89.23       |             | ASTM D-5&6 | ≥ 80       | ≥ 80        |
| Flash point  | °C                | 315         |             | ASTM D-92  | ≥ 250      | ≥ 250       |
| Specific Gravity @25/25°C  |                   |             |             |            |            |             |
| Descriptions   | Unit              | Specimen #1 | Specimen #2 |            |            |             |
| Weight of Pycnometer (+Stopper), A   | gm                | 30.378      |             |            |            |             |
| Weight of Pycnometer +Water, B   | gm                | 56.132      |             |            |            |             |
| Weight Pycnometer partially filled with Bitumen, C   | gm                | 44.835      |             |            |            |             |
| Pycnometer+Bitmen+Water, D   | gm                | 56.572      |             |            |            |             |
| 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= $\frac{(C-A)}{(B-A)-(D-C)} \times (GT/G25)$   |                   | 1.0314      |             |            |            |             |
| Specific Gravity   |                   | 1.0314      |             |            |            |             |

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

Test Performed By

22-Apr-2026

Akram Hossen

Test Approved By

22-Apr-2026

Sheikh Nafiur Nur Mousum

Counter Signed By

22-Apr-2026

Mahbuba Akter

Counter Signed By

22-Apr-2026

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