



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



DATA & REPORT SHEET

Memo No: LAB-25-09-14-03828-001-01

Date: 2025-09-14

Client : Bandarban Road Division Lab Register No. : 02(B) 2025-2026.  
Tender No. : 755718 Contract No. : e-GP-SE-  
BBan/PMP/Bridge/10/2022-2023  
Tracking Number : LAB-25-09-14-03828 Sample Sent By : Client  
Project/Work Name : Construction of 50.12m (1×48.78m) long P.C Girder Bridge (Yancha Bridge) at 12th km (Ch. 11km+276m) of Chiringya (Faishakhali)-Lama-Alikadam Road (Z-1005) Under Bandarban Road Division, during the year 2022-2023.  
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 : Rimi Nerman Ltd. UT Mong (JV). Address: House # 279/6. Road No # Mirpur DOHS Road, (4th Floor) Manikdi, Dhaka-1206.  
Date of sample receive : 24/08/2025 Date of Test : 25/08/2025  
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 5 kg approximately. Sample was sealed by Executive Engineer, RHD, Road Division, Bandarban.  
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)          | 0.09        |             | ASTM D-6   | ≤ 0.2      | ≤ 0.5       |
| Penetrating drop after heating                     | %                 | 84.29       |             | ASTM D-5&6 | ≥ 80       | ≥ 80        |
| Flash point                                        | °C                | 306         |             | ASTM D-92  | ≥ 250      | ≥ 250       |
| Specific Gravity @25/25°C                          |                   |             |             |            |            |             |
| Descriptions                                       | Unit              | Specimen #1 | Specimen #2 |            |            |             |
| Weight of Pycnometer (+Stopper), A                 | gm                | 30.372      |             |            |            |             |
| Weight of Pycnometer +Water, B                     | gm                | 56.136      |             |            |            |             |
| Weight Pycnometer partially filled with Bitumen, C | gm                | 44.832      |             |            |            |             |
| Pycnometer+Bitmen+Water, D                         | gm                | 56.301      |             |            |            |             |
| 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)         |                   | 1.0115      |             |            |            |             |
| Specific Gravity                                   |                   | 1.0115      |             |            |            |             |

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

Test Performed By

15-Sep-2025

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

Test Approved By

15-Sep-2025

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

Counter Signed By

15-Sep-2025

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

Counter Signed By

15-Sep-2025

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

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