



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



DATA & REPORT SHEET

Memo No: LAB-25-04-23-03767-001-01

Date: 2025-04-23

Client : Narayanganj Road Division Lab Register No. : 93 (B) 2024-2025.  
Tender No. : 955746 Contract No. : Nill  
Tracking Number : LAB-25-04-23-03767 Sample Sent By : Client  
Project/Work Name : Periodic Maintenance Programme for DBS-Wearing Course work with necessary Repair and Construction of Rigid Pavement work from Ch. 0+000 m to 3+500m of Mograpara Anandabazar Road (Z-1089) with Baidderbazar Link Road (Ch. 0+000m to 0+950m) under Narayanganj  
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 : Orient Trading & Builders Ltd. Address: House No. 80, Flat No- 6B, Road No-02, Chairmanbari, Banani, Dhaka-1213.  
Date of sample receive : 16/04/2025 Date of Test : 20/04/2025  
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, Narayanganj Road Division, Narayanganj.  
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                     | %                 | 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                | 56.137      |             |            |            |             |
| Weight Pycnometer partially filled with Bitumen, C | gm                | 44.826      |             |            |            |             |
| Pycnometer+Bitmen+Water, D                         | gm                | 56.311      |             |            |            |             |
| 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)         |                   | 1.0122      |             |            |            |             |
| Specific Gravity                                   |                   | 1.0122      |             |            |            |             |

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

Test Performed By

23-Apr-2025

Test Approved By

23-Apr-2025

Counter Signed By

23-Apr-2025

Counter Signed By

23-Apr-2025

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