

Transportation Engineering Laboratory (TEL)

Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE – 54890 (PAKISTAN)



Phone: 092-42-9929202 Cable: UNIVENGTECH Fax: 092-42-9922566

Ref.:-----

Date:-----

Mr. Muhammad Bilal
Resident Engineer,
M/s ECSP (Pvt.) Ltd.

Subject: **Testing of Asphalt Concrete Samples (Cores)**
Rehabilitation of Metalled Road from Choubara to Nawan Kot,
Length = 23.10 km

Dear Sir,

It is with reference to your letter No. ECSP/LAH/ADP/24/238 dated 24-07-2024.
Please find below the results for the tests conducted on the cores of asphalt concrete
provided to this laboratory on 08-08-2024 through your representative.

BULK SPECIFIC GRAVITY OF COMPACTED ASPHALT (ASTM D2726):

Core #	Mean Thickness (cm)	Mean Diameter (cm)	Bulk Specific Gravity
1 (RD 748+90)	6.290	9.940	2.363
2 (RD 694+50)	6.800	9.940	2.391
3 (RD 659+40)	6.727	9.940	2.354
4 (RD 627+30)	6.050	9.940	2.333
5 (RD 595+20)	6.433	9.940	2.336
6 (RD 560+70)	7.290	9.940	2.347
7 (RD 528+90)	8.140	9.940	2.408
8 (RD 497+70)	7.383	9.940	2.392
9 (RD 464+00)	7.637	9.940	2.345
10 (RD 431+20)	7.970	9.940	2.463
11 (RD 397+00)	6.130	9.940	2.471
12 (RD 365+00)	6.413	9.940	2.421
13 (RD 332+10)	8.230	9.940	2.448
14 (RD 301+20)	6.553	9.940	2.451
15 (RD 264+50)	6.417	9.940	2.381

16 (RD 233+50)	6.337	9.940	2.450
17 (RD 201+00)	7.157	9.940	2.403
18 (RD 166+10)	7.140	9.940	2.462
19 (RD 135+30)	7.003	9.940	2.430
20 (RD 102+50)	7.693	9.940	2.375

If you have further query, please do not hesitate to contact the undersigned.

Best Regards,

Director
Transportation Engineering Laboratory

Note:

1. This test report is based solely on the particular sample(s) supplied by the client and should not be reproduced in parts.
2. Sampling has not been performed by Transportation Engineering Laboratory (TEL), UET and TEL-UET does not accept the responsibility that the sample(s) supplied is/are truly representative sample(s) of any batch or stock or entire project.
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Ref.-----

Date:-----

Major Muhammad Bilal Khalid
for Commanding Officer,
122 Quarrying & Carpeting Battalion.
Camp Area Khori Rasoolpur (Gujrat).

Subject: **Testing of Asphalt Concrete Samples**

Dear Sir,

It is with reference to your letter No. 607/Lab/Asphalt/02 dated 29-07-2024.
Please find below the results for the tests conducted on the cores and chunks of asphalt
concrete provided to this laboratory through your representative.

BULK SPECIFIC GRAVITY OF COMPACTED ASPHALT (ASTM D2726):

Core	Mean Thickness (cm)	Mean Diameter (cm)	Bulk Specific Gravity
Sample # 1	6.977	10.720	2.509
Sample # 2	5.723	10.720	2.481

BITUMEN EXTRACTION TEST: (Chunks)

Sample # 1

Bitumen Extraction Value (ASTM D-2172)											3.47%
Gradation Analysis											
Sieve No.	1"	¾"	½"	3/8"	#4	#8	#16	#30	#50	#100	#200
% Passing	100	97.57	73.40	58.99	46.78	34.96	20.75	14.62	9.41	4.81	2.15

Sample # 2

Bitumen Extraction Value (ASTM D-2172)											3.49%
Gradation Analysis											
Sieve No.	1"	¾"	½"	3/8"	#4	#8	#16	#30	#50	#100	#200
% Passing	100	97.08	74.04	60.03	47.71	36.10	22.28	15.94	10.45	5.53	2.40

If you have further query, please do not hesitate to contact the undersigned.

Best Regards,

Director
Transportation Engineering Laboratory

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