

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:-----

The Resident Engineer (GB Zone),
EPHE Division, NESPAK.

Subject: **Testing of Coarse Aggregate**

Source: Sargodha Crush

Provision of Water Supply & Sewerage System in Rafaiabad & Adjoining Abadies,
UC-71 Gunj Baksh Zone, Lahore
(M/s Al-Hasnan Construction Company)

Dear Sir,

It is with reference to your letter No. LDP/GB-WASA/43101-403 dated 17-03-2025.

Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 20-05-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

Sieve Size	¾"	½"	3/8"	#4
%age Passing	100	67.09	32.59	0.58

2. Specific Gravity & Water Absorption (ASTM C-127)

Specific Gravity (oven dried condition)	2.78
Specific Gravity (saturated surface dry condition)	2.80
Apparent Specific Gravity	2.83
Water Absorption (%)	0.64

3. Sodium Sulphate Soundness (ASTM C-88)

Sieve Size	Weight of Fraction Before Test (gm)	Weight of Fraction After Test (gm)	Percentage Passing Designated Sieve After Test	Weighted Percentage Loss
1/2" + 3/8"	1002.4	987.4	1.50	1.01
	Total = 1.01%			

4. Los Angeles Abrasion Value Test (ASTM C-131/535)

Grading Used	Los Angeles Abrasion Value (%)
B	20.99

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

Best Regards,

Director
Transportation Engineering Laboratory

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TEL-UET

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Ref.:-----

Date:-----

Mr. Ghulam Rasool Domki
Resident Engineer,
NESPAK,
Mandi Baha-Ud-Din.

Subject: **Testing of Coarse Aggregates (DST/TST)**
Road Restoration Programme, District Mandi Baha-Ud-Din
Project: 1. Restoration of Mano Chak to Qadirabad Road (1854)
2. Restoration of Gojra to Chot Dheeran Road (1857)

Dear Sir,

It is with reference to your letter No. 4834/RRP/MBD/GRD/166 dated 04-05-2025.
Please find below the results for the tests conducted on the aggregate samples provided to this laboratory on 26-05-2025 through your representative.

Coarse Aggregates

Sample No. 1

Sieve Analysis (ASTM C-136)

Sieve Size	3/4"	1/2"	3/8"	#4
%age Passing	100	77.38	36.14	0.88

Sample No. 2

Sieve Analysis (ASTM C-136)

Sieve Size	1/2"	3/8"	#4
%age Passing	100	99.58	72.86

Mixed Sample

1. Specific Gravity & Water Absorption (ASTM C-127)

Specific Gravity (oven dried condition)	2.83
Specific Gravity (saturated surface dry condition)	2.84
Apparent Specific Gravity	2.87
Water Absorption (%)	0.47

2. Sodium Sulphate Soundness (ASTM C-88)

Sieve Size	Weight of Fraction Before Test. (gm)	Weight of Fraction After Test. (gm)	Percentage Passing Designated Sieve After Test.	Weighted Percentage Loss.
1/2" + 3/8"	1004.3	994.3	1.00	0.32
	Total = 0.32%			

3. Los Angeles Abrasion Value Test (ASTM C-131/535)

Grading Used	Los Angeles Abrasion Value (%)
B	15.48

4. Unit Weight (*Loose & Rodded*); (ASTM C 29/C 29M)

Loose Unit Weight (g/cm ³)	1.53
Rodded Unit Weight (g/cm ³)	1.63

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Director
Transportation Engineering Laboratory

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Date:-----

Mr. Ghulam Rasool Domki
Resident Engineer,
NESPAK,
Mandi Baha-Ud-Din.

Subject: **Testing of Coarse Aggregate (DST/TST)**
Road Restoration Programme, District Mandi Baha-Ud-Din
Project: Restoration of Sadullahpur Jokalian, Phalia, Kuthiala Sheikhhan Road (1850)

Dear Sir,

It is with reference to your letter No. 4834/RRP/MBD/GRD/168 dated 04-05-2025.
Please find below the results for the tests conducted on the aggregate samples provided to this laboratory on 26-05-2025 through your representative.

Coarse Aggregates

Sample No. 1

Sieve Analysis (ASTM C-136)

Sieve Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
%age Passing	100	47.35	3.32	0.34	0	0

Sample No. 2

Sieve Analysis (ASTM C-136)

Sieve Size	3/4"	1/2"	3/8"	#4
%age Passing	100	56.1	17.03	0.13

Mixed Sample

1. Specific Gravity & Water Absorption (ASTM C-127)

Specific Gravity (oven dried condition)	2.85
Specific Gravity (saturated surface dry condition)	2.86
Apparent Specific Gravity	2.87
Water Absorption (%)	0.27

2. Sodium Sulphate Soundness (ASTM C-88)

Sieve Size	Weight of Fraction Before Test. (gm)	Weight of Fraction After Test. (gm)	Percentage Passing Designated Sieve After Test.	Weighted Percentage Loss.
1" + 3/4"	1504.3	1495.7	0.57	0.35
	Total = 0.35%			

3. Los Angeles Abrasion Value Test (ASTM C-131/535)

Grading Used	Los Angeles Abrasion Value (%)
A	14.46

4. Unit Weight (*Loose & Rodded*); (ASTM C 29/C 29M)

Loose Unit Weight (g/cm ³)	1.44
Rodded Unit Weight (g/cm ³)	1.57

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Ref.:-----

Date:-----

Mr. Ghulam Rasool Domki
Resident Engineer,
NESPAK,
Mandi Baha-Ud-Din.

Subject: **Testing of Bitumen – AASHTO Standard (M-20)**
Road Restoration Programme, District Mandi Baha-Ud-Din
Project: Restoration of Sadullahpur Jokalian, Phalia, Kuthiala Sheikhhan Road (1850)

Dear Sir,

It is with reference to your letter No. 4834/RRP/MBD/GRD/175 dated 04-05-2025.
Please find below the results for the tests conducted on the bitumen sample provided to this laboratory on 26-05-2025 through your representative.

Sr.#	Laboratory Tests	Results
1	Penetration (ASTM D-5)	88 Units
2	Ductility (ASTM D-113)	Above 100 cm
3	Softening Point (ASTM D-36)	45.1°C
4	Flash Point (ASTM D-92)	305°C
5	Solubility (ASTM D-2042)	99.80%
6	Specific Gravity Value (ASTM D-70)	1.020

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

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Resident Engineer,
NESPAK,
Mandi Baha-Ud-Din.

Subject: **Testing of Bitumen – AASHTO Standard (M-20)**
Road Restoration Programme, District Mandi Baha-Ud-Din
Project: 1. Restoration of Mano Chak to Qadirabad Road (1854)
2. Restoration of Gojra to Chot Dheeran Road (1857)

Dear Sir,

It is with reference to your letter No. 4834/RRP/MBD/GRD/176 dated 04-05-2025.
Please find below the results for the tests conducted on the bitumen sample provided to this laboratory on 26-05-2025 through your representative.

Sr.#	Laboratory Tests	Results
1	Penetration (ASTM D-5)	66 Units
2	Ductility (ASTM D-113)	Above 100 cm
3	Softening Point (ASTM D-36)	44.7°C
4	Flash Point (ASTM D-92)	290°C
5	Solubility (ASTM D-2042)	99.80%
6	Specific Gravity Value (ASTM D-70)	1.036

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

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Ref.-----

Date:-----

Mr. Mushtaq Ahmed
Assistant Director (Technical),
Anti-Corruption Establishment,
Sargodha Region, Sargodha.

Subject: **Enquiry No. 78/2024 (KHB)**
Dualization of Sargodha Khushab Mianwali Road, Length = 60.43 km in
District Khushab

Dear Sir,

It is with reference to your letter No. ACE-SR-2025/4584 dated 05-05-2025.
Please find below the results for the tests conducted on coarse aggregates provided to this
laboratory on 09-07-2025 through your representative.

Los Angeles Abrasion Value Tests (ASTM C-131/535)

Sample Description	Grading Used	Los Angeles Abrasion Value (%)
Group No. 1, RD 140+00, Base	1	24.99
Group No. 2, RD 178+00, Base	1	24.79
Group No. 3, RD 818+00, Base	1	25.30
Group No. 4, RD 1713+00, Base	1	25.50

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Assistant Director (Technical),
Anti-Corruption Establishment,
Sargodha Region, Sargodha.

Subject: **Enquiry No. 78/2024 (KHB)**
Dualization of Sargodha Khushab Mianwali Road, Length = 60.43 km in
District Khushab

Dear Sir,

It is with reference to your letter No. ACE-SR-2025/4584 dated 05-05-2025.
Please find below the results for the tests conducted on asphalt concrete cores provided to
this laboratory on 09-07-2025 through your representative.

BULK SPECIFIC GRAVITY OF COMPACTED ASPHALT (ASTM D2726):

Group	Core Description	Mean Thickness (cm)	Mean Diameter (cm)	Bulk Specific Gravity
01	RD 61+00, AWC	6.970	10.500	2.430
	RD 61+00, ABC1	7.960	10.500	2.450
	RD 61+00, ABC2	8.000	10.500	2.470
	RD 140+00, AWC	6.410	10.500	2.440
	RD 140+00, ABC1	8.410	10.500	2.450
	RD 140+00, ABC2	7.890	10.500	2.450
02	RD 178+00, AWC	6.980	10.500	2.440
	RD 178+00, ABC1	7.830	10.500	2.480
	RD 178+00, ABC2	7.560	10.500	2.480
	RD 477+00, AWC	5.800	10.500	2.440
	RD 477+00, ABC1	7.430	10.500	2.470
	RD 477+00, ABC2	8.170	10.500	2.460
03	RD 650+00, AWC	6.550	10.500	2.430
	RD 650+00, ABC1	7.500	10.500	2.460
	RD 650+00, ABC2	7.250	10.500	2.470
	RD 818+00, AWC	5.730	10.500	2.420
	RD 818+00, ABC1	7.740	10.500	2.470
	RD 818+00, ABC2	7.890	10.500	2.460

04	RD 1317+00, AWC	6.390	10.500	2.440
	RD 1317+00, ABC1	7.050	10.500	2.480
	RD 1317+00, ABC2	7.070	10.500	2.470
	RD 1511+00, AWC	5.820	10.500	2.420
	RD 1511+00, ABC1	7.200	10.500	2.460
	RD 1511+00, ABC2	7.160	10.500	2.470
	RD 1713+00, AWC	6.320	10.500	2.430
	RD 1713+00, ABC1	7.050	10.500	2.470
	RD1713+00, ABC2	7.480	10.500	2.470

'ABC1' and 'ABC2' represent upper and lower layers of asphalt base course respectively.

BITUMEN EXTRACTION TEST: (Cores)

Group No. 01

RD 61+00, ABC1

Bitumen Extraction Value (ASTM D-2172)								3.70%	
Gradation Analysis									
<i>Sieve No.</i>	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	80.01	75.01	64.01	55.02	37.03	21.04	9.04	4.04

RD 140+00, AWC

Bitumen Extraction Value (ASTM D-2172)								4.18%	
Gradation Analysis									
<i>Sieve No.</i>		1"	3/4"	1/2"	3/8"	#4	#8	#50	#200
<i>% Passing</i>		100	95.01	68.01	63.02	43.02	25.03	9.04	5.05

RD 140+00, ABC1

Bitumen Extraction Value (ASTM D-2172)								3.67%	
Gradation Analysis									
<i>Sieve No.</i>	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	82.00	73.01	66.04	54.04	39.05	21.05	10.06	4.06

RD 140+00, ABC2

Bitumen Extraction Value (ASTM D-2172)								3.66%	
Gradation Analysis									
<i>Sieve No.</i>	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	81.01	74.01	65.02	56.15	36.02	20.02	8.03	4.53

Group No. 02

RD 178+00, AWC

Bitumen Extraction Value (ASTM D-2172)							4.18%		
Gradation Analysis									
Sieve No.	1"	¾"	½"	3/8"	#4	#8	#50	#200	
% Passing	100	92.00	66.01	61.00	42.01	25.01	10.01	4.81	

RD 178+00, ABC1

Bitumen Extraction Value (ASTM D-2172)							3.64%		
Gradation Analysis									
Sieve No.	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
% Passing	100	85.00	75.00	62.01	56.02	41.02	20.02	9.03	3.83

RD 477+00, ABC2

Bitumen Extraction Value (ASTM D-2172)							3.67%		
Gradation Analysis									
Sieve No.	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
% Passing	100	79.92	70.42	61.97	51.49	38.94	21.32	9.94	4.67

Group No. 03

RD 650+00, AWC

Bitumen Extraction Value (ASTM D-2172)							4.18%		
Gradation Analysis									
Sieve No.	1"	¾"	½"	3/8"	#4	#8	#50	#200	
% Passing	100	92.00	72.00	61.01	44.03	26.03	9.05	4.75	

RD 650+00, ABC2

Bitumen Extraction Value (ASTM D-2172)							3.65%		
Gradation Analysis									
Sieve No.	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
% Passing	100	88.00	79.01	66.01	56.02	39.02	21.03	10.03	4.54

RD 818+00, ABC1

Bitumen Extraction Value (ASTM D-2172)							3.66%		
Gradation Analysis									
Sieve No.	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
% Passing	100	86.01	74.02	62.15	54.16	38.17	20.17	8.17	4.17

Group No. 04

RD 1317+00, ABC1

Bitumen Extraction Value (ASTM D-2172)							3.66%		
Gradation Analysis									
<i>Sieve No.</i>	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	85.42	75.43	67.44	52.46	39.46	20.46	8.47	4.27

RD 1713+00, AWC

Bitumen Extraction Value (ASTM D-2172)							4.14%		
Gradation Analysis									
<i>Sieve No.</i>	1"	¾"	½"	3/8"	#4	#8	#50	#200	
<i>% Passing</i>	100	96.01	72.02	59.03	43.04	28.04	11.06	5.08	

RD 1713+00, ABC1

Bitumen Extraction Value (ASTM D-2172)							3.65%		
Gradation Analysis									
<i>Sieve No.</i>	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	84.01	76.02	65.02	51.93	39.90	20.91	8.92	4.42

RD 1713+00, ABC2

Bitumen Extraction Value (ASTM D-2172)							3.66%		
Gradation Analysis									
<i>Sieve No.</i>	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	80.00	71.00	61.88	55.88	41.00	22.00	8.00	3.48

RD 1511+00, ABC2

Bitumen Extraction Value (ASTM D-2172)							3.67%		
Gradation Analysis									
<i>Sieve No.</i>	1 ½"	1"	¾"	½"	3/8"	#4	#8	#50	#200
<i>% Passing</i>	100	83.01	73.01	65.01	53.02	39.03	19.03	9.03	4.46

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

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Director
Transportation Engineering Laboratory

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

Ref.:-----

Date:-----

Mr. Awais Akram
Resident Engineer,
NESPAK,
Lahore.

Subject: **Testing of Sub-base Material**
Sustainable Development of Gulberg Scheme Block A, B, C & E-I, Lahore

Dear Sir,

It is with reference to your letter No. 3772/103/LDA-GR/AA/04/05 dated 03-06-2025.
Please find below the results of tests conducted on the sample of aggregate provided to this laboratory on 29-07-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

Sieve Size	2"	1"	3/8"	#4	#10	#40	#200
%age Passing	100	85.00	54.98	42.98	31.97	21.07	9.00

2. Los Angeles Abrasion Value Test (ASTM C-131/535)

Grading Used	Los Angeles Abrasion Value (%)
A	27.30

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

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