Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)



Date:----

Mr. Muhammad Zain-Ul-Abadeen Resident Engineer, NESPAK, Lahore.

Ref.----

Testing of Coarse Aggregate Subject:

Tender No. XEN(O&M-I) NT/2024-25/83 Improvement of Water Supply and

Sewerage System in UC-235, Nishter Zone, Lahore

Dear Sir,

It is with reference to your letter No. 43101/MZA/01/1059 dated 03-01-2025.

Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 14-01-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

| Sieve Size | 3/4" | 1/2" | 3/8" | #4 |
|--------------|------|-------|-------|----|
| %age Passing | 100 | 77.46 | 28.42 | 0 |

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

| Specific Gravity (oven dried condition) | 2.81 |
|--|------|
| Specific Gravity (saturated surface dry condition) | 2.83 |
| Apparent Specific Gravity | 2.86 |
| Water Absorption (%) | 0.62 |

3. Sodium Sulphate Soundness (ASTM C-88)

| Sieve Size | Weight of | Weight of | Percentage | Weighted |
|-------------|-------------|------------|------------------|------------|
| | Fraction | Fraction | Passing | Percentage |
| | Before Test | After Test | Designated Sieve | Loss |
| 1/2" + 3/8" | (gm) | (gm) | After Test | |
| /2 /8 | 1004.3 | 991.2 | 1.30 | 0.93 |
| | | | Total = 0.93% | |

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

| Grading Used | Los Angeles Abrasion Value (%) |
|--------------|--------------------------------|
| В | 19.50 |

5. Flakiness & Elongation Index (BS 812: Part 105)

| Sieve Size | | Individual Weighted | | Individual | Weighted | |
|------------|----------|---------------------|--------------|----------------|-------------|--|
| Passing | Retained | Flakiness Flakiness | | Elongation | Elongation | |
| (in.) | (in.) | Index (%) | Index (%) | Index (%) | Index (%) | |
| 3/4 | 1/2 | 14.23 | 3.21 | 13.59 | 3.06 | |
| 1/2 | 3/8 | 12.18 | 5.97 | 14.49 | 7.11 | |
| 3/8 | 1/4 | 11.65 | 3.31 | 16.15 | 4.59 | |
| | | Flakiness Inc | dex = 12.49% | Elongation Ind | ex = 14.76% | |

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

Best Regards,

Director

Transportation Engineering Laboratory

Note

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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)



Mr. Muhammad Zain-Ul-Abadeen Resident Engineer, NESPAK, Lahore.

Ref.----

Testing of Bedding Material of Sewer Pipe Subject:

Tender No. XEN(O&M-I) NT/2024-25/83-Improvement of Water Supply and

Date:----

Sewerage System in UC-235, Nishter Zone, Lahore

Dear Sir,

It is with reference to your letter No. 43101/MZA/01/1053 dated 03-01-2025.

Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 14-01-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

| Sieve Size | 2 ½" | 2" | 1 ½" | 1" | 3/4" | 1/2" | 3/8" | #4 |
|--------------|------|-------|-------|-------|------|------|------|----|
| %age Passing | 100 | 95.42 | 83.94 | 21.84 | 0.82 | 0 | 0 | 0 |

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

| Specific Gravity (oven dried condition) | 2.70 |
|--|------|
| Specific Gravity (saturated surface dry condition) | 2.72 |
| Apparent Specific Gravity | 2.75 |
| Water Absorption (%) | 0.64 |

3. Sodium Sulphate Soundness (ASTM C-88)

| Sieve Size | Weight of | Weight of | Percentage | Weighted |
|---------------------|-------------|------------|------------------|------------|
| | Fraction | Fraction | Passing | Percentage |
| | Before Test | After Test | Designated Sieve | Loss |
| $1" + \frac{3}{4}"$ | (gm) | (gm) | After Test | |
| 1 / 7 | 1508.0 | 1491.3 | 1.11 | 0.92 |
| | | | Total = 0.92% | |

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

| Grading Used | Los Angeles Abrasion Value |
|--------------|----------------------------|
| | (%) |
| A | 21.66 |

5. Flakiness & Elongation Index (BS 812: Part 105)

| Sieve | e Size | Individual | Weighted | Individual | Weighted |
|---------|----------|---------------|------------------|----------------|-------------|
| Passing | Retained | Flakiness | Flakiness | Elongation | Elongation |
| (in.) | (in.) | Index (%) | Index (%) | Index (%) | Index (%) |
| 2 ½ | 2 | 0 | 0 | 0 | 0 |
| 2 | 1 ½ | 6.68 | 0.77 | 7.28 | 0.84 |
| 1 ½ | 1 | 9.08 | 5.64 | 20.68 | 12.84 |
| 1 | 3/4 | 5.87 | 1.23 | 10.20 | 2.14 |
| 3/4 | 1/2 | 0 | 0 | 68.59 | 0.57 |
| | | Flakiness Inc | dex = 7.64% | Elongation Ind | ex = 16.39% |

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

Best Regards,

Director

Transportation Engineering Laboratory

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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE - 54890 (PAKISTAN)





Date:----

Mr. Jawad Qayyum Khan Resident Engineer, NESPAK, Sargodha.

Ref.----

Testing of Cores of Asphaltic Wearing Course Subject:

> Restoration/Improvement of Arterial-III Sheikhupura Faisalabad Jhang Bhakkar Darya Khan Road, Length = 107.82 km, District Bhakkar

Dear Sir,

It is with reference to your letter No. RE/4834/JOK/25/7462 dated 03-02-2025. Please find below the results for the tests conducted on asphalt concrete cores provided to this laboratory on 14-02-2025 through your representative.

BULK SPECIFIC GRAVITY OF COMPACTED ASPHALT (ASTM D2726):

| Core | Mean Thickness | Mean Diameter | Bulk |
|------|----------------|---------------|------------------|
| | (cm) | (cm) | Specific Gravity |
| 1 | 5.267 | 9.200 | 2.388 |
| 2 | 4.300 | 9.200 | 2.416 |
| 3 | 5.847 | 9.200 | 2.391 |
| 4 | 4.467 | 9.200 | 2.382 |
| 5 | 4.913 | 9.200 | 2.393 |
| 6 | 6.400 | 9.200 | 2.394 |
| 7 | 5.263 | 9.200 | 2.389 |
| 8 | 5.283 | 9.200 | 2.404 |
| 9 | 4.960 | 9.200 | 2.384 |
| 10 | 5.300 | 9.200 | 2.383 |
| 11 | 5.213 | 9.200 | 2.403 |
| 12 | 5.343 | 9.200 | 2.391 |
| 13 | 5.817 | 9.200 | 2.447 |
| 14 | 5.833 | 9.200 | 2.463 |
| 15 | 5.963 | 9.200 | 2.392 |
| 16 | 5.153 | 9.200 | 2.396 |
| 17 | 4.900 | 9.200 | 2.389 |
| 18 | 4.773 | 9.200 | 2.404 |
| 19 | 4.957 | 9.200 | 2.388 |
| 20 | 4.603 | 9.200 | 2.398 |

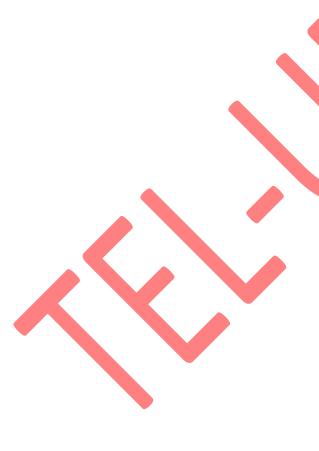
If you have further query, please do not hesitate to contact the undersigned.

Best Regards,

Director

Transportation Engineering Laboratory

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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE - 54890 (PAKISTAN)





Date:----

Mr. Jawad Qayyum Khan Resident Engineer, NESPAK, Sargodha.

Ref.----

Subject: Testing of Chunks of Asphaltic Wearing Course

Restoration/Improvement of Arterial-III Sheikhupura Faisalabad Jhang Bhakkar Darya Khan Road, Length = 107.82 km, District Bhakkar

Dear Sir,

It is with reference to your letter No. RE/4834/JQK/25/7460 dated 03-02-2025. Please find below the results for the tests conducted on asphalt concrete chunks provided to this laboratory on 14-02-2025 through your representative.

BITUMEN EXTRACTION TEST: (Chunks)

Sample #1 (AWC)

| Bitumen Extraction Value (ASTM D-2172) 4.25% | | | | | | | | | |
|--|--|-----|-------|-------|-------|-------|-------|------|------|
| Gradation Analysis | | | | | | | | | |
| Sieve No. | | 1" | 3/4" | 1/2" | 3/8" | #4 | #8 | #50 | #200 |
| % Passing | | 100 | 95.00 | 85.00 | 64.01 | 42.02 | 25.02 | 9.03 | 5.05 |

Sample # 2 (AWC)

| Bitumen Extraction Value (ASTM D-2172) 4.26% | | | | | | | | | |
|--|--|-----|-------|-------|-------|-------|-------|------|------|
| Gradation Analysis | | | | | | | | | |
| Sieve No. | | 1" | 3/4" | 1/2" | 3/8" | #4 | #8 | #50 | #200 |
| % Passing | | 100 | 96.01 | 83.00 | 64.99 | 42.98 | 23.98 | 8.48 | 4.49 |

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

Best Regards,

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Director

Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE – 54890 (PAKISTAN)



AHORE A

Date:----

Mr. Jawad Qayyum Khan Resident Engineer, NESPAK, Sargodha.

Ref.----

Subject: <u>Testing of Cores of Asphaltic Base Course</u>

Restoration/Improvement of Arterial-III Sheikhupura Faisalabad Jhang Bhakkar Darya Khan Road, Length = 107.82 km, District Bhakkar

Dear Sir,

It is with reference to your letter No. RE/4834/JQK/25/7461 dated 03-02-2025. Please find below the results for the tests conducted on asphalt concrete cores provided to this laboratory on 14-02-2025 through your representative.

BULK SPECIFIC GRAVITY OF COMPACTED ASPHALT (ASTM D2726):

| Core | Mean Thickness | Mean Diameter | Bulk |
|------|----------------|---------------|------------------|
| | (cm) | (cm) | Specific Gravity |
| 1 | 7.267 | 9.300 | 2.436 |
| 2 | 7.410 | 9.300 | 2.419 |
| 3 | 6.983 | 9.300 | 2.422 |
| 4 | 7.930 | 9.300 | 2.423 |
| 5 | 8.003 | 9.300 | 2.429 |
| 6 | 7.803 | 9.300 | 2.476 |
| 7 | 6.983 | 9.300 | 2.429 |
| 8 | 7.140 | 9.300 | 2.440 |
| 9 | 6.860 | 9.300 | 2.478 |
| 10 | 6.850 | 9.300 | 2.452 |
| 11 | 7.440 | 9.300 | 2.426 |
| 12 | 6.717 | 9.300 | 2.463 |
| 13 | 6.707 | 9.300 | 2.406 |
| 14 | 7.463 | 9.300 | 2.432 |
| 15 | 7.543 | 9.300 | 2.402 |
| 16 | 7.843 | 9.300 | 2.465 |
| 17 | 8.160 | 9.300 | 2.457 |
| 18 | 8.230 | 9.300 | 2.494 |
| 19 | 8.310 | 9.300 | 2.425 |
| 20 | 8.140 | 9.300 | 2.433 |

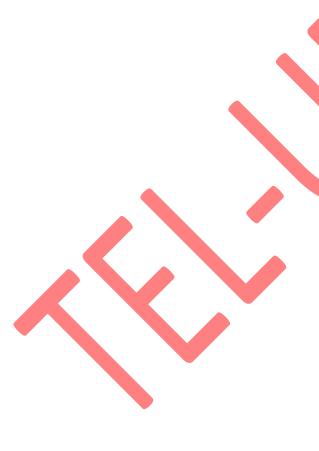
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Director

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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE - 54890 (PAKISTAN)





Date:----

Mr. Jawad Qayyum Khan Resident Engineer, NESPAK, Sargodha.

Ref.----

Subject: Testing of Chunks of Asphaltic Base Course

Restoration/Improvement of Arterial-III Sheikhupura Faisalabad Jhang Bhakkar Darya Khan Road, Length = 107.82 km, District Bhakkar

Dear Sir,

It is with reference to your letter No. RE/4834/JQK/25/7459 dated 03-02-2025. Please find below the results for the tests conducted on asphalt concrete chunks provided to this laboratory on 14-02-2025 through your representative.

BITUMEN EXTRACTION TEST: (Chunks)

Sample #1 (ABC)

| Bitumen Extraction Value (ASTM D-2172) 3.72% | | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|-------|------|------|
| Gradation Analysis | | | | | | | | | |
| Sieve No. | 1 ½" | 1" | 3/4" | 1/2" | 3/8" | #4 | #8 | #50 | #200 |
| % Passing | 100 | 89.00 | 75.01 | 65.00 | 49.99 | 33.99 | 19.98 | 8.47 | 4.46 |

Sample # 2 (ABC)

| Bitumen Extraction Value (ASTM D-2172) 3.72% | | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|-------|------|------|
| Gradation Analysis | | | | | | | | | |
| Sieve No. | 1 ½" | 1" | 3/4" | 1/2" | 3/8" | #4 | #8 | #50 | #200 |
| % Passing | 100 | 88.00 | 74.01 | 66.01 | 49.02 | 35.03 | 19.03 | 8.02 | 4.02 |

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

Best Regards,

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Director

Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE - 54890 (PAKISTAN)





Date:----

Engr. Sheikh Maqbool Hassan Resident Engineer, NESPAK, MCL Nishtar Zone, Lahore.

Ref.----

Subject: Testing of Aggregate (Granular Sub-base)

Construction of Metalled Road from Manak Road to Bahria Road to WAPDA

Society Road, Allama Iqbal Zone MCL

Dear Sir,

It is with reference to your letter No. 4084/103/LDP/NZ/04/240 dated 03-03-2025. Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 07-03-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

| Sieve Size | 2" | 1 1/2" | 1" | 3/4" | 1/2" | 3/8" | #4 |
|--------------|-----|--------|-------|-------|-------|-------|-------|
| %age Passing | 100 | 100 | 79.52 | 60.43 | 37.72 | 24.47 | 19.02 |

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

| Ī | Grading Used | Los Angeles Abrasion Value |
|---|--------------|----------------------------|
| | | (%) |
| | A | 28.11 |

3. Flakiness & Elongation Index (BS 812: Part 105)

| Sieve Size | | Individual | Weighted | Individual | Weighted | |
|--------------|----------------|------------------------|--------------|-----------------------|-------------------------|--|
| Passing | Retained (in.) | Flakiness Index (%) | | | Elongation Index (%) | |
| (in.) 1 ½ | 1 | 25.83 | 6.53 | Index (%) 27.09 | 6.85 | |
| 1 | 3/4 | 23.82 | 5.61 | 31.75 | 7.48 | |
| 3/4 | 1/2 | 26.71 | 7.49 | 30.58 | 8.57 | |
| 1/2 | 3/8 | 25.63 | 4.19 | 33.00 | 5.40 | |
| 3/8 | 1/4 | 13.43 | 0.90 | 22.17 | 1.49 | |
| | | Flakiness Inc | dex = 24.72% | Elongation Ind | ex = 29.79% | |

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

Best Regards,

Director

Transportation Engineering Laboratory

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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)



Engr. Sheikh Maqbool Hassan Resident Engineer, NESPAK, MCL Nishtar Zone, Lahore.

Ref.----

Subject: <u>Testing of Base Course/WBM Material</u>

Construction of Metalled Road from Manak Road to Bahria Road to WAPDA

Society Road, Allama Iqbal Zone MCL

Dear Sir,

It is with reference to your letter No. 4084/103/LDP/NZ/04/238 dated 03-03-2025.

Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 07-03-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

| Sieve Size | 3" | 2 ½" | 2" | 1 ½" | 1" | 3/4** | 1/2" | 3/8" | #4 |
|--------------|-----|-------|-------|------|----|-------|------|------|----|
| %age Passing | 100 | 77.82 | 16.53 | 0.55 | 0 | 0 | 0 | 0 | 0 |

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

| Specific Gravity (oven dried condition) | 2.70 |
|--|------|
| Specific Gravity (saturated surface dry condition) | 2.71 |
| Apparent Specific Gravity | 2.74 |
| Water Absorption (%) | 0.50 |

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

| Grading Used | Los Angeles Abrasion Value |
|---------------------|----------------------------|
| | (%) |
| 1 | 20.29 |

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

Best Regards,

Note:

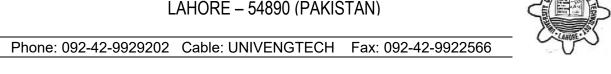
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Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE – 54890 (PAKISTAN)



Engr. Mazhar Latif General Manager (Projects), Habib Rafiq Engineering (Pvt.) Limited, Lahore.

Testing of Bitumen – AASHTO Standard (M-20) Subject:

Development of One Central Vista Project, Lahore

Dear Sir,

It is with reference to your letter No. L-1C-MISC-25-0030 dated 28-03-2025. Please find below the results of tests conducted on the bitumen sample provided to this laboratory through your representative.

| Sr.# | Laboratory Tests | Results |
|------|---|--------------|
| 1 | Penetration (ASTM D-5) | 66 Units |
| 2 | Penetration of Residue (ASTM D-5) | 58 Units |
| 3 | Ductility (ASTM D-113) | Above 100 cm |
| 4 | Ductility of Residue (ASTM D-113) | Above 100 cm |
| 5 | Flash Point (ASTM D-92) | 298°C |
| 6 | Solubility (ASTM D-2042) | 99.80% |
| 7 | Specific Gravity Value (ASTM D-70) | 1.021 |
| 8 | Thin Film Oven Test Value (ASTM D-1754) | 0.476% |

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

Best Regards,

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Date:----

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Director