

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. M. Hassan Khan
Resident Engineer,
NESPAK.

Subject: **Testing of Sub-base Material**

Scheme # 18, Rehabilitation/Improvement/Patch Work of Link Road UC-128, 129, 130, 161, 162, 163, Shalamar Zone Phase-II

Dear Sir,

It is with reference to your letter No. 4084/103/LDP/SMZ(S-18)/04/19 dated 14-01-2025.
Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 10-02-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

Sieve Size	1 1/2"	1"	3/4"	1/2"	3/8"	#4
%age Passing	100	85.33	60.81	38.82	31.62	26.79

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

Specific Gravity (oven dried condition)	2.69
Specific Gravity (saturated surface dry condition)	2.70
Apparent Specific Gravity	2.71
Water Absorption (%)	0.35

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" + 3/4"	1503.0	1480.3	1.48	0.58
	Total = 0.58%			

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

Grading Used	Los Angeles Abrasion Value (%)
A	26.50

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.
3. While TEL-UET agrees to take every reasonable precaution to ensure validity of its test results, it assumes no liability thereof beyond the amount of the fee charged for the analysis or test.
4. The party shall assume full responsibility for the ethical use of the results in the test reports and the TEL-UET shall be held free from any and all claims which may result from the use of such data by client or others.
5. This test report shall not be reproduced wholly or in parts unless negotiated.

TEL UET

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Ref.:-----

Date:-----

Mr. M. Hassan Khan
Resident Engineer,
NESPAK.

Subject: **Testing of Sand for Concrete/Mortar**

Scheme # 18, Rehabilitation/Improvement/Patch Work of Link Road UC-128, 129, 130, 161, 162, 163, Shalamar Zone Phase-II

Dear Sir,

It is with reference to your letter No. 4084/103/LDP/SMZ(S-18)/04/29 dated 17-01-2025.

Please find below the results for the tests conducted on the aggregate sample provided to this laboratory on 10-02-2025 through your representative.

1. Sieve Analysis (ASTM C-136)

Sieve Size	3/8"	#4	#8	#16	#30	#50	#100	#200
%age Passing	100	100	99.82	99.58	99.24	86.42	9.35	1.36

2. Fineness Modulus (ASTM C-142)

Fineness Modulus (%)	1.06
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3. Specific Gravity & Water Absorption (ASTM C-128)

Specific Gravity (OD)	2.65
Specific Gravity (SSD)	2.67
Apparent Specific Gravity	2.70
Water Absorption (%)	0.72

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

Best Regards,

Director
Transportation Engineering Laboratory

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