

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 Saleem
Material Engineer NESPAK,
ADP WASA,
Lahore.

Subject: **Testing of Materials (Coarse and Fine Aggregates)**
Annual Development Program-WASA (ADP 2024-25)
Rainwater Management – Drainage Arrangement for Sore Point at Tajpura (Babari
& Amna Park), Lahore

Dear Sir,

It is with reference to your letter No. NESPAK/WASA/ADP/UGWT/TP/ME/03 dated 21-04-2025. Please find below the results for the tests conducted on the aggregate samples provided to this laboratory on 03-06-2025 through your representative.

Coarse Aggregate (Source: Sargodha)

1. Sieve Analysis (ASTM C-136)

Sieve Size	¾"	½"	3/8"	#4
%age Passing	100	68.79	18.52	0.59

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

Specific Gravity (oven dried condition)	2.81
Specific Gravity (saturated surface dry condition)	2.82
Apparent Specific Gravity	2.85
Water Absorption (%)	0.52

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	991.4	1.10	0.90
	Total = 0.90%			

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

Grading Used	Los Angeles Abrasion Value (%)
B	16.78

Fine Aggregate (Source: Lawrancepur)

1. Sieve Analysis (ASTM C-136)

Sieve Size	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
%age Passing	100	96.16	95.73	90.57	79.63	63.39	26.61	5.18	0.96

2. Fineness Modulus (ASTM C-142)

Fineness Modulus (%)	2.40
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3. Specific Gravity & Water Absorption (ASTM C-128)

Specific Gravity (OD)	2.67
Specific Gravity (SSD)	2.69
Apparent Specific Gravity	2.73
Water Absorption (%)	0.79

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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Mr. M. Armughan Khan
Deputy Director (QCD),
WASA, Lahore.

Subject: **Testing of Crush Stone for Bedding**

Tender No. XEN (O&M-II) AWT/2024-2025/143/Provision of Trunk Sewer (Umar Khan Road to Lahore Lyceum School Manawan Campus)
(M/s SA 4 Construction Company)

Dear Sir,

It is with reference to your letter No. QCD/2602 dated 11-06-2025.

Please find below the results of tests conducted on the sample of crush provided to this laboratory 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	77.74	13.87	0.53	0	0	0

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

Grading Used	Los Angeles Abrasion Value (%)
A	24.13

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

Best Regards,

Director
Transportation Engineering Laboratory

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