Transportation Engineering Laboratory (TEL)

Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE - 54890 (PAKISTAN)





Date:----

Mr. Shamas Iqbal Cheema Resident Engineer, Sialkot Tannery Association (Guarantee) Limited,

Subject: <u>Testing of Coarse Aggregate Samples</u> (Sargodha)

Construction of Chrome Recovery Plant for Sialkot Tannery Zone

Dear Sir,

Sambrial.

Ref.-----

It is with reference to your letter No. Nil dated 08-05-2024.

Please find below the results for the tests conducted on the coarse aggregate samples provided to this laboratory on 24-05-2024 through your representative.

Sample # 1

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

Specific Gravity (oven dried condition)	2.80
Specific Gravity (saturated surface dry condition)	2.82
Apparent Specific Gravity	2.85
Water Absorption (%)	0.56

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

Grading Used	Los Angeles Abrasion Value
В	17.79

3. Flakiness Index (BS 812: Part 105)

Sieve Size		Individual	Weighted	
Passing Retained		Flakiness	Flakiness	
(in.)	(in.)	Index (%)	Index (%)	
3/4	1/2	9.12	6.52	
1/2	3/8	6.47	1.16	
3/8	1/4	5.16	0.54	
,		Flakiness Inc	1ex = 8.22%	

4. 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	992.3	1.20	1.07
			Total = 1.07%	

Sample # 2

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

Specific Gravity (oven dried condition)	2.80
Specific Gravity (saturated surface dry condition)	2.82
Apparent Specific Gravity	2.85
Water Absorption (%)	0.64

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

Grading Used	Los Angeles Abrasion Value
	(%)
В	18.20

3. Flakiness Index (BS 812: Part 105)

Sieve	Size	Individual	Weighted Flakiness Index (%)	
Passing (in.)	Retained (in.)	Flakiness Index (%)		
3/4	1/2	8.48	6.17	
1/2	3/8	6.43	1.11	
3/8	1/4	5.24	0.53	
		Flakiness Inc	lex = 7.81%	

4. 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
$\frac{1}{2}$ " + $\frac{3}{8}$ "	(gm)	(gm)	After Test	
/2 /8	1007.3	994.2	1.30	1.17
			Total = 1.17%	

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

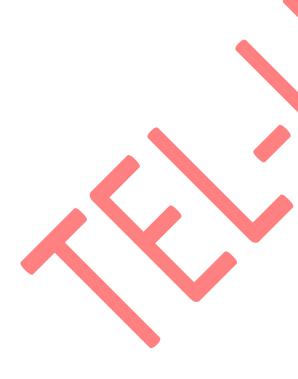
Best Regards,

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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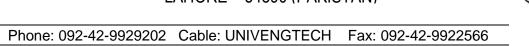


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LAHORE - 54890 (PAKISTAN)





Mr. Shamas Iqbal Cheema Resident Engineer, Sialkot Tannery Association (Guarantee) Limited, Sambrial.

Subject: Testing of Fine Aggregate Sample (Lawrancepur Sand)

Construction of Chrome Recovery Plant for Sialkot Tannery Zone

Dear Sir,

Ref.----

It is with reference to your letter No. Nil dated 08-05-2024.

Please find below the results for the tests conducted on the fine aggregate sample provided to this laboratory on 24-05-2024 through your representative.

1. Sieve Analysis (ASTM C-136)

Sieve Size	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
%age Passing	100	99.73	99.01	96.13	83.98	66.15	36.06	9.30	1.50

2. Fineness Modulus (ASTM C-142)

Fineness	Modulus (%	<u>(6)</u>	2.10

3. Specific Gravity & Water Absorption (ASTM C-128)

Specific Gravity (OD)	2.68
Specific Gravity (SSD)	2.69
Apparent Specific Gravity	2.73
Water Absorption (%)	0.81

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

Best Regards,

Director

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