

# 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:-----

Engr. Muhammad Farooq Memon  
Resident Engineer,  
Metroplan-Asian JV,  
NSIC Sargodha.

Subject: **Testing of Base Course Material**

Project: Establishment of Nawaz Sharif Institute of Cardiology, Sargodha

Dear Sir,

It is with reference to your letter No. Metroplan-Asian-JV/IDAP-NSIC-LAB/MB-SGD-RE/187 dated 09-02-2025.

Please find below the results of tests conducted on the sample of aggregate provided to this laboratory on 16-07-2025 through your representative.

## 1. Sieve Analysis (ASTM C-136)

Sieve Size	2"	1"	3/8"	#4	#10	#40	#200
%age Passing	100	80.00	45.00	35.00	30.00	14.00	5.00

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

Specific Gravity (oven dried condition)	2.65
Specific Gravity (saturated surface dry condition)	2.68
Apparent Specific Gravity	2.72
Water Absorption (%)	0.95

## 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"	1009.3	989.0	2.01	1.11
	<b>Total = 1.11%</b>			

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

<b>Grading Used</b>	<b>Los Angeles Abrasion Value (%)</b>
A	27.50

**5. Clay Lumps and Friable Particles (ASTM C-142)**

Clay Lumps and Friable Particles (%)	2.83
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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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Ref:-----

Date:-----

Mr. Haseeb Baloch  
Resident Engineer,  
MASCON Associates (Pvt.) Ltd., Lahore.

Subject: **Testing of Material (Sands)**  
Project: Construction of Model Bazaar Jhelum

Dear Sir,

It is with reference to your letter No. MAS-RE/MBJ/25/11 dated 28-07-2025.

Please find below the results for the tests conducted on the fine aggregate samples provided to this laboratory through your representative.

## Lawrencepur Sand

### 1. Sieve Analysis (ASTM C-136)

Sieve Size	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200
%age Passing	100	99.11	95.51	90.59	79.74	63.09	26.72	5.44	1.10

### 2. Fineness Modulus (ASTM C-142)

Fineness Modulus (%)	2.42
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## Chenab Sand

### 1. Sieve Analysis (ASTM C-136)

Sieve Size	3/8"	#4	#8	#16	#30	#50	#100	#200
%age Passing	100	99.78	98.97	97.97	96.83	81.43	10.32	2.02

### 2. Fineness Modulus (ASTM C-142)

Fineness Modulus (%)	1.17
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If you have further query, please do not hesitate to contact the undersigned.

Best Regards,

Director  
Transportation Engineering Laboratory

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