

Transportation Engineering Laboratory (TEL)

Department of Civil Engineering (CED)

UNIVERSITY OF ENGINEERING & TECHNOLOGY (UET)

LAHORE – 54890 (PAKISTAN)



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Ref:-----

Date:-----

Mr. Muhammad Aman Ullah
Resident Engineer,
NESPAK, Lahore.

Subject: **Testing of Base (WBM) Material**
Construction of Missing Links in Jinnah Sector (Ali Road) LDA City

Dear Sir,

It is with reference to your letter No. 4047/13/MA/04/521 dated 06-02-2025.

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

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

Specific Gravity (oven dried condition)	2.69
Specific Gravity (saturated surface dry condition)	2.71
Apparent Specific Gravity	2.75
Water Absorption (%)	0.85

2. 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
2" + 1 1/2"	5010.4	4980.1	0.60	0.54
	Total = 0.54%			

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

Grading Used	Los Angeles Abrasion Value (%)
1	20.16

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

Sieve Size		Individual Flakiness Index (%)	Weighted Flakiness Index (%)	Individual Elongation Index (%)	Weighted Elongation Index (%)
Passing (in.)	Retained (in.)				
3	2 ½	10.56	0.87	36.91	3.05
2 ½	2	8.54	3.74	15.02	6.57
2	1 ½	3.30	1.56	4.65	2.18
1 ½	1	3.73	0.03	9.17	0.09
Flakiness Index = 6.20%			Elongation Index = 11.89%		

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

Best Regards,

Director
Transportation Engineering Laboratory

Note:

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