

# 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. Asim Chiragh  
Resident Engineer,  
NESPAK,  
Lahore.

Subject: **Testing of Bitumen – AASHTO Standard (M-20)**  
Rehabilitation of Muridke Narowal Road (Section Muridke to District Boundary)  
Length = 42.00 km in District Sheikhpura

Dear Sir,

It is with reference to your letter No. 3811/103/ADP-24/AC/33 dated 24-09-2025.  
Please find below the results of tests conducted on the bitumen sample provided to this laboratory on 06-10-2025 through your representative.

Sr.#	Laboratory Tests	Results
1	Penetration (ASTM D-5)	82 Units
2	Penetration of Residue (ASTM D-5)	74 Units
3	Ductility (ASTM D-113)	Above 100 cm
4	Ductility of Residue (ASTM D-113)	Above 100 cm
5	Softening Point (ASTM D-36)	44.0°C
6	Flash Point (ASTM D-92)	285°C
7	Solubility (ASTM D-2042)	99.80%
8	Thin Film Oven Test Value (ASTM D-1754)	0.475%
9	Loss on Heating Value (ASTM D-6)	0.437%

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

Best Regards,

Director  
Transportation Engineering Laboratory

**Note:**

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