



National Highway Authority

MATERIAL TESTING BASE LABORATORY

LOS ANGELES ABRASION TEST AASHTO T96.

Project _____ Contract No. _____
 Location of Sample Jari Kas (Attock) Contractor M/S Mines & Minerals
 Material Water Bound Macadam Tested Date 14-7-2007.

SIEVE SIZE		GRADING AND WEIGHT OF TEST SAMPLE, g						
PASSING	RETAINED ON	A wt test sample	B wt test sample	C wt test sample	D wt test sample	E wt test sample	F wt test sample	G wt test sample
3"	2 1/2"					2500± 50		
2 1/2"	2"					2500± 50		
2"	1 1/2"					5000± 50	5000± 50	
1 1/2"	1"	1250± 25					5000± 25	5000± 25
1"	3/4"	1250± 25						5000± 25
3/4"	1/2"	1250± 10	2500± 10					
1/2"	3/8"	1250± 10	2500± 10					
3/8"	1/4"			2500± 10				
1/4"	NO. 4			2500± 10				
NO. 4	NO. 8				5000± 10			
TOTAL		5000± 10	5000± 10	5000± 10	5000± 10	10000± 100	10000± 75	
NO. OF SPHERS		12	11	8	6	12	12	12

NOTE:

ROTATE AT 30 TO 33 RPM FOR 500 REVOLUTIONS, (GRADINGS A TO D)
 ROTATE AT 30 TO 33 RPM FOR 1000 REVOLUTIONS (GRADINGS E TO G)
 THE ABRASIVE CHARGE SHALL BE OF CAST IRON OR STEEL SPHERERS
 APPROXIMATELY 1 7/8 INCH IN DIAMETER AND EACH WEIGHING BETWEEN
 390 TO 445 GRAMS. THE CHARGE DEPENDING UPON GRADING OF TEST.
 SAMPLE SHALL BE AS TABULATED ABOVE

WT. SAMPLE AFTER TEST (b) = 8395 gms.

CALCULATION

$$\text{ABRASION LOSS \%} = \frac{a-b}{a} \times 100 = \frac{1655 \times 100}{10050} = 16.5\%$$

WHERE

a = ORIGINAL OVEN DRIED WEIGHT

b = OVEN DRIED WEIGHT RETAINED ON
NO. 12 SIEVE AFTER ABRASION

SPECIFICATION Max. 45%

TESTED BY

Tarig

CHECKED BY

M. Z. Anis

In Charge