

List of Test and Rate

LIST OF TEST AND RATE (JKA)			
AGGREGATE & CONCRETE TEST			
NO.	TEST	UNIT	RATE (RM)
1.	Particle Size Grading	No	150
2.	Ten Percent Fines Value	Set	400
3.	Aggregate Crushing Value	Set	400
4.	Aggregate Impact Value	Set	200
5.	Flakiness Index (size of aggregate)	No	150
6.	Elongation Index (size of aggregate)	No	150
7.	Specific Gravity & Water Absorption: -		
	a) Coarse aggregate	No	250
	b) Fine aggregate	No	250
8.	Polished-stone Value	Set	1500
9.	Soundness of Aggregate:-		
	a) Coarse aggregate	Set	250
	b) Fine aggregate	Set	300
10.	Los Angeles Abrasion Value:-		
	a) Coarse aggregate	Set	250
	b) Fine aggregate	Set	200
11.	Clay, Silt & Dust Content	Set	150
12.	Organic Impurities	Set	150
13.	Chloride Content	Set	150
14.	Sulphate Content	Set	150

BITUMEN / ASPHALT			
NO.	TEST	UNIT	RATE (RM)
1.	Viscosity	Set	250
2.	Residue on Sieving	No	150
3.	Penetration Test	Set	150
4.	Softening Point	Set	150
5.	Solubility	No	200
6.	Loss on Heating of Oil and Asphaltic Compounds	No	200
7.	Thin film	Set	200
8.	Prepare Sample:		
	Grading/Sieve Analysis	No	150
	Asphalt Mixed Design and Compaction	No	250
9.	Bulk Density Test	No	200
10.	Dynamic Creep Test (1 hours)	No	350
11.	Static Creep Test (1 hours)	No	350

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SOIL TEST			
NO.	TEST	UNIT	RATE (RM)
1.	Atterberg Limit (including LL, PL, Shrinkage Limit & Moisture Content)	No	150
2.	Specific Gravity	No	50
3.	Particle Size Distribution (fine grained – sieve and hydrometer)	No	200
4.	Compaction Test	Series	350
5.	CBR Test	Series	400
6.	Permeability Test: a) Constant Head b) Falling Head	No	300
7.	Triaxial Test consists of: a) Unconsolidated Undrained Triaxial Compression Test (UU) b) Consolidated Undrained Triaxial Compression Test (CU)	Set Set	400 650
8.	Consolidation Test	No	1000
9.	Shear Box Test: - a) Small Shear (50mm & 100mm)	Set	400

List of Test and Rate

PREMIX TEST			
NO.	TEST	UNIT	RATE (RM)
1.	Marshall Test including density, voids, flow, stability and stiffness.	Sample	350
2.	Determination of Binder Content	Set	300
3.	Grading of Mineral Aggregate	No	150
4.	Marshall Mix Design	Sample	200

List of Test and Rate

CHEMICAL TEST			
NO.	TEST	UNIT	RATE (RM)
1.	Total Solid (TS)	Sample	150
2.	Total Suspended Solid (TSS)	Sample	150
3.	Total Dissolved Solid (TDS)	Sample	150
4.	Dissolved Oxygen (DO)	Sample	40
5.	Biochemical Oxygen Demand (BOD)	Sample	150
6.	Chemical Oxygen Demand (COD)	Sample	200
7.	Metals: a) Ammonium b) Chloride c) Fluoride d) Phosphorus / Phosphate	Sample Sample Sample Sample	100 100 100 100
8.	Water Hardness	Sample	150
9.	pH	Sample	40
10.	Temperature	Sample	40
11.	Turbidity	Sample	80
12.	Salinity	Sample	40

List of Test and Rate

OTHERS			
NO.	TEST	UNIT	RATE (RM)
1.	To carry out cube compressive strength test of prepared sample. Size: (150 x 150 x 150) mm	Set of 3	15
2.	To carry out brick test: a) Compressive strength b) Water absorption (5 hour boiling method) c) Water absorption (24-hour cool immersion test)	Set of 3 Set of 10 Set of 5	100 250 250
3.	To carry out the following re-bar test: a) Tensile Test. ■ Size ≥ 25 ■ Size ≤ 20 <i>Note: The length of sample should be 600 mm for each size.</i> b) Bending Test. ■ Size ≥ 25 ■ Size ≤ 20 <i>Note: The length of sample should be 600 mm for each size.</i>	Set of 3 Set of 3 Set of 3 Set of 3	100 80 100 80
4.	To carry out testing: a) Mackintosh or JKR Probes b) Indirect Tensile Stiffness Modulus (MATTA) c) using Porosimeter App. d) using Sorptomatic App. e) using Malvern Mastersizer Equip.	Point Sample Sample Sample Sample	250 200 200 150 50