

List of Test and Rate

LIST OF TEST AND RATE (JKAS)				
AGGREGATE & CONCRETE TEST				CONTACT PERSON
NO.	TEST	UNIT	RATE (RM)	Mr. Mohd Rizal Bin Deris 03-8921-6210 rezzal@ukm.edu.my
1.	Particle Size Grading	No	150	
2.	Ten Percent Fines Value	Set	120	
3.	Aggregate Crushing Value	Set	200	
4.	Aggregate Impact Value	Set	120	
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				CONTACT PERSON
NO.	TEST	UNIT	RATE (RM)	Mr. Ashari Bin Jani 03-8921-6214 ashari@ukm.edu.my
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.	Thinfilm	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	

List of Test and Rate

SOIL TEST				CONTACT PERSON
NO.	TEST	UNIT	RATE (RM)	
1.	pH Value	No	30	Mrs. Fauziah Binti Mohd Tahir 03-8921-6750 fauziahtahir@ukm.edu.my
2.	Moisture Content	No	20	
3.	Atterberg Limit (including LL, PL, Shrinkage Limit & Moisture Content)	No	50	
4.	Specific Gravity	No	50	
5.	Particle Size Analysis	No	80	
6.	Dispersion Test (Hydrometer)	No	100	
7.	Compaction Test	Series	350	
8.	CBR Test	Series	400	
9.	Permeability Test (Constant Head)	No	250	
10.	Triaxial Test consists of :			
	a) Unconsolidated Undrained Triaxial Compression Test (UU)	Set	400	
	b) Consolidated Undrained Triaxial Compression Test (CU)	Set	650	
11.	Consolidation Test	No	1000	
12.	Shear Box Test :-			
	a) Small Shear (50mm & 100mm)	Set	300	
13.	Organic Matter Content	No	100	

PREMIX TEST				CONTACT PERSON
NO.	TEST	UNIT	RATE (RM)	
1.	Marshall Test including density, voids, flow, stability and stiffness.	Sample	350	Mr. Ashari Bin Jani 03-8921-6214 ashari@ukm.edu.my
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				CONTACT PERSON
NO.	TEST	UNIT	RATE (RM)	
1.	Total Solid (TS)	Sample	80	Mrs. Nor Azura Binti Abdullah @ Ghazali 03-8921-6215 azurafirdaus@ukm.edu.my
2.	Total Suspended Solid (TSS)	Sample	80	
3.	Total Dissolved Solid (TDS)	Sample	80	
4.	Dissolved Oxygen (DO)	Sample	20	
5.	Biochemical Oxygen Demand (BOD)	Sample	100	
6.	Chemical Oxygen Demand (COD)	Sample	80	
7.	Metals:			
	a) Ammonium	Sample	60	
	b) Chloride	Sample	60	
	c) Fluoride	Sample	60	
	d) Phosphorus / Phosphate	Sample	60	
8.	Water Hardness	Sample	150	
9.	pH	Sample	30	
10.	Temperature	Sample	20	
11.	Turbidity	Sample	60	
12.	Salinity	Sample	20	

List of Test and Rate

OTHERS				Contact Person
NO.	TEST	UNIT	RATE (RM)	Mr. Mohd Rizal Bin Deris 03-8921-6210 rezzal@ukm.edu.my
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. <ul style="list-style-type: none"> ▪ Size \geq 25 ▪ Size \leq 20 <i>Note : The length of sample should be 600 mm for each size.</i> b) Bending Test. <ul style="list-style-type: none"> ▪ Size \geq 25 ▪ Size \leq 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	