

PERKARA : KADAR BAYARAN PENGGUNAAN FASILITI DI FAKULTI PERHUTANAN
UNIVERSITI PUTRA MALAYSIA

KEPUTUSAN :
JAWATANKUASA TETAP
KEWANGAN (JKTK) **BIL. 3 (2017) 01 NOVEMBER 2017**

MINIT :
MINIT 8/3 (2017)

KADAR SEWAAN PERALATAN MAKMAL JABATAN PENGURUSAN HUTAN DAN JABATAN PENGELUARAN HUTAN, FAKULTI PERHUTANAN

Bil	Nama Alat	Unit	Kadar Bayaran (RM) / Unit			Catatan
			UPM	Agensi Kerajaan	Swasta / Industri	
A. MAKMAL UJI BAHAN						
1	Instron 5582 – Static Banding	Sampel	56.00	72.00	80.00	
2	Instron 3366 – Tensile	Sampel	56.00	72.00	80.00	
3	Instron 4204 – SB, T, H, C, S	Sampel	56.00	72.00	80.00	
4	Colour Reader	Sampel	56.00	72.00	80.00	
B. MAKMAL ANATOMI KAYU						
5	Image Analyzer	Jam	63.00	81.00	90.00	
6	Leica Motorize Microsystem	Jam	74.00	83.00	92.00	Sama Harga Ditawar IBS
7	Sliding Microtome	Jam	63.00	81.00	90.00	
C. MAKMAL KIMIA KAYU						
8	Soxhlet Extractor	Sampel	319.00	351.00	387.00	Sama Harga Ditawar IBS
9	Rotary Evaporator	Jam	24.00	27.00	30.00	Sama Harga Ditawar IBS
10	UV-VIS Spectrophotometer	Jam	12.00	15.00	20.00	Sama Harga Ditawar IBS
11	Dynamic Contact Angle	Sampel	49.00	63.00	70.00	
12	Furnace	Jam	56.00	72.00	80.00	
13	Halogen Moisture Analyzer	Sampel	42.00	54.00	60.00	
14	Viscometer	Sampel	49.00	63.00	70.00	

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D. MAKMAL KOMPOSIT						
15	Hot Press	Jam	77.00	99.00	110.00	
16	Atmospheric Refiner	Hari	294.00	378.00	420.00	
17	Vacuum Pump	Jam	56.00	72.00	80.00	
18	PB Glue Blender	Jam	70.00	90.00	100.00	
19	Industrial Microwave	Tray/Hari	84.00	108.00	120.00	
20	Waterbath	Jam	15.00	20.00	30.00	
E. MAKMAL TEKNOLOGI KAYU (BENGKEL)						
21	Band Saw Heading	Jam	56.00	72.00	80.00	
22	Planer	Jam	49.00	63.00	70.00	
23	Forklift	Hari	154.00	198.00	220.00	Tanpa Diesel
24	Grinder	Jam	10.00	11.00	12.00	Sama Harga Ditawar IBS
25	Surface Roughness Tester	Jam	84.00	108.00	120.00	
26	Thermal Imaging Camera	Jam	84.00	108.00	120.00	
27	Sliding Table Saw	Jam	84.00	108.00	120.00	
F. MAKMAL KEMEROSOTAN KAYU DAN PENGAWALAN						
28	Incubator	Jam	42.00	54.00	60.00	
29	Autoclave	Run	15.00	20.00	30.00	Sama Harga Ditawar IBS
30	Laminar Air Flow	Jam	42.00	54.00	60.00	
G. MAKMAL HASIL HUTAN						
31	Kiln Fry (KD)	Sampel/Hari	50.00	70.00	120.00	
H. MAKMAL PULPA DAN KERTAS						
32	Oven	Jam	50.00	70.00	120.00	
33	Brightness Meter	Sampel	50.00	70.00	120.00	
I. MAKMAL FISILOGI POKOK						
34	Portable Photosynthesis System	Hari / Sampel	105.00 / 10.50	135.00 / 13.50	150.00 / 15.00	Penggunaan terhadap
35	Chlorophyll Fluorometer	Hari / Sampel	35.00 / 3.50	45.00 / 4.50	50.00 / 5.00	
36	High Pressure Flow Meter	Hari / Sampel	70.00 / 7.00	90.00 / 9.00	100.00 / 10.00	

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37	High Pressure Chamber	Hari / Sampel	21.00 / 2.10	27.00 / 2.70	30.00 / 3.00	
38	Generator 2kV	Hari	49.00	63.00	70.00	
39	Autoclave	Penggunaan	14.00	18.00	20.00	
J. MAKMAL TEKNOLOGI BIJI BENIH						
40	Laminar Air Flow	Hari	35.00	45.00	50.00	
41	Distilled Water	Liter	2.10	2.70	3.00	
42	Fume Cupboard	Hari	35.00	45.00	50.00	
43	Incubator Fridge	Hari	10.50	13.50	15.00	
K. MAKMAL HUTAN BANDAR DAN ARBORIKULTUR						
44	Picus Sonic Tomograph	Sampel	105.00	135.00	150.00	
45	Chainsaw	Hari	56.00	72.00	80.00	
46	Resistance Histogram	Sampel	84.00	108.00	120.00	
L. MAKMAL SAINS TANAH						
47	Atomic Absorption Spectrophotometer	Sampel	5.00	10.00	10.00	
48	CHNS Analyzer	Sampel	100.00	120.00	120.00	
49	CHN	Sampel	70.00	100.00	100.00	

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