

PERKARA : KADAR SEWAAN KEMUDAHAN PERALATAN UNIT  
LOJI PEPANDU, FAKULTI SAINS DAN TEKNOLOGI  
MAKANAN, UNIVERSITI PUTRA MALAYSIA

KEPUTUSAN JAWATANKUASA TETAP : BIL. 2 (2005) 03 MEI 2005  
KEWANGAN (JKTK)

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#### Unit Loji Pepandu

Bil	Perkhidmatan	Harga (RM) (Min. 3 jam)
1	Soy bean cooker	84.00
2	Sachet Filler (P)	69.00
3	Sachet Filler (L)	71.00
4	Screw Press	62.00
5	Soy bean Grinder(ss)	59.00
6	Grinder (ms)	58.00
7	Juice Line Pasteuriser & Cooler	185.00
8	Tank & Piping	76.00
9	Filling & Capping	82.00
10	Clarifier	210.00
11	Paste Line Pasteuriser Contherm Scrape Surface	242.00
12	Air Compressor	62.00
13	Cup Filler	149.00
14	Vacuum Evaporator	80.00
15	Spray Dryer	168.00
16	Fluid Bed Agglomerator	130.00
17	Air Blast Freezer	126.00
18	Double Drum Dryer	178.00
19	Homogenizer	85.00
20	Mid Steel Retort	104.00
21	Soy Bean Cooling System	94.00
22	R.O Water System	80.00
23	Grinder Fine-Friction	147.00
24	Slicer	115.00
25	Screw Filter Press	279.00
26	Retort (old)	62.00
27	Blancher (old)	57.00
28	Freeze Dryer (Vertis)	157.00
29	Boiler	242.00

## Unit Makanan Halal & Analisis

Bil	Perkhidmatan	Harga (RM) / sampel
1	Crude Protein	75.00
2	Crude Fat	100.00
3	Moisture	40.00
4	Ash	60.00
5	Crude Fiber	100.00
6	Carbohydrate	20.00
7	Energy	20.00
8	Acid titration	50.00
9	Total Polyphenol	100.00
10	Total Soluble Solid	40.00
11	Water activity (equipment)	100.00
12	GCMS (equipment)	300.00
13	HPLC (equipment)	250.00

Bil	Perkhidmatan	Harga (RM) / sampel
<b>1.0</b>	<b>Fat</b>	
	Cholesterol	200.00
	Fatty Acid Profile	200.00
	Fatty Acid Omega 3	200.00
	Fatty Acid Omega 6	200.00
	Peroxide Value in Fat	150.00
	Peroxide Value in Food	150.00
	Iodine Value	150.00
	Acid Value (Free Fatty Acid)	150.00
<b>2.0</b>	<b>Fiber &amp; Carbohydrate</b>	
	Dietary Fiber	300.00
	Total Dietary Fiber	300.00
	Total Starch	100.00
<b>3.0</b>	<b>Vitamin and Mineral</b>	
	Vitamin A	250.00
	Niacin B3	250.00
	Thiamin B1	250.00
	Vitamin E (alfa-tocofenol)	250.00
	Folic Acid	250.00
	Vitamin B6 (pyridoksin)	250.00

Bil	Perkhidmatan	Harga (RM) / sampel
	Vitamin B12 (sainokobalamin)	250.00
<b>4.0</b>	<b>Mineral &amp; Inorganic Matter</b>	
	Sodium Salt	100.00
	Calcium	100.00
	Phosphorus	100.00
	Ferum	100.00
	Natrium	100.00
	Aluminium	100.00
	Calium	100.00
	Magnesium	100.00
	Zink	100.00
	Cuprum	100.00
<b>5.0</b>	<b>Food additive</b>	
	Organic Acid	250.00
	Caffeine & Theobromin	250.00
	Bromate (in flour only)	250.00
	Sobic Acid/Benzoic Acid	250.00
	Alcohol (ethanol & methanol)	250.00
	Pewarna (FD & C)	250.00
	Glycerol/Glycol	250.00
<b>6.0</b>	<b>Microbiological Assessment &amp; Analysis</b>	
	Aerobic Standard	150.00
	Anaerobic Plate Count	150.00
	Coliform (MPN)	150.00
	Coliform (Plate)	150.00
	E.coll O157:H7	500.00
	*Plate	200.00
	*MPN	150.00
	Vibrio spp.	200.00
	*MPN	150.00
	*PCR	500.00
	<i>Listeria monocytogenes</i>	250.00
	<i>Salmonella spp.</i>	250.00
	Coagulase-positif <i>Staphylococcus aureus</i> (PCR)	500.00
	*Plate	150.00
	<i>Pseudomonas</i>	150.00
	<i>Streptococcus spp./enterococci</i>	300.00

<b>Bil</b>	<b>Perkhidmatan</b>	<b>Harga (RM) / sampel</b>
	<i>Mesophilic aerobic sporeformers</i>	200.00
	<i>Mesophilic anaerobic sporeformers</i>	250.00
	<i>Thermophilic aerobic</i>	200.00
	<i>Thermophilic anaerobic sporeformers</i>	250.00
	<i>Phychrophiles &amp; Psychorophs</i>	150.00
	<i>Molds</i>	150.00
	<i>Yeast</i>	150.00
	<i>Rope spores</i>	350.00
	<i>Flat Sour spores</i>	200.00
<b>7.0</b>	<b>Rheological &amp; Texture Analysis</b>	
	Texture Analysis	10.00
	Hunter (L.A.B)	30.00
	Rheometer	30.00

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