

Appendix D: Bill of Materials and Tracking

Outsource - Purchase Ourself

Insource - Borrow from lab tech

Manufacture -

Request				Tracking			
	Component Name	Specification	QTY	Source	Unit Price (RM)	Total (RM)	Status
1	Hinge	Either buy or 3D print depends on the final design dimension	2	Out - source	5	10	Done
2	Single Acting Cylinder with spring return (Magnetic Sensor)	Extension Length: 160mm \pm 10mm	2	In-source	593.01	1186.02	Done
3	Double Acting Cylinder (Magnetic Sensor)	Extension Length: 160mm \pm 10mm	2	In-source	777.92	1555.84	Done
4	Bolts	Bolt & Nut Shop	50	Out - source	0.20	10	Done
5	Nuts	Bolt & Nut Shop	50	Out - source	0.20	10	Done
6	Conveyor Belts	Variable Speed	1	In-source	1160	1160	Done
7	Quick Exhaust Valve	Nil	2	In-source	73.98	147.96	Done
8	One Way Throttle Valve	Nil	2	In-source	114.36	228.72	Done
9	PLC	Siemens PLC 1214C AC/DC/RLY	1	Insource	1113.72	1113.72	Done
10	Metal Inductive Sensor	Detection Range approx.20 mm	2	Insource	16	16	Done

11	Aluminium Profile Extruded Bar	Nil	3	Insour ce	101.29	303.88	Done
12	Aluminium Extruded Bar Bracket.	Nil	10	Insour ce	10.90	109.00	Done
13	Aluminum Mounting Panel	Nil	1	Insour ce	634.50	634.50	Done
14	Aluminum profile base	Nil	1	Insour ce	341.62	341.62	Done
15	Wooden crushing compartment	None	1	Manuf acture	42.17	42.17	Done
16	Funnel	Width of Can	1	Manuf acture	32.62	32.62	Done
17	FRL unit	None	1	Insour ce	133.33	133.33	Done
18	Solenoid Actuated Double External Pilot Valve	None	2	Insour ce	146.26	292.52	Done
19	AC-DC Converter	240V to 24V	1	Insour ce	203.06	203.06	Done
20	Solid State Relay	None	1	Insour ce	7.95	7.95	Done
21	Control panel	Start, stop and kill switch buttons with respective lights.	1	Manuf acture	37.25	37.25	Done