

**KERJA-KERJA UBAHSUAI, MEMBEKAL DAN MEMASANG PERALATAN  
BENGKEL JURUTEKNIK PENYAMAN UDARA DI IKIP ADVANCED  
SKILLS CENTRE, KAMPUS BENTONG, BENTONG, PAHANG.**



ITEM	SUBJECT	QTY	RATE	AMOUNT
	<b>PERALATAN</b>			
1	GETAH PAIP AIR (20 METER)	1 UNIT		
2	BINGKAI GERGAJI BESI (300 MM- STANLEY)	10 UNIT		
3	MATA GERGAJI BESI	2 KOTAK		
4	SLING PSYCOMETER	2 UNIT		
5	SET SOLDERING IRO (GOOT JAPAN)	5 UNIT		
6	MIN I SET OXY-ACYTELENE (COMPLETE SET) WELDING TROLLEY + TROLLEY + HOSE + OXYGEN + ACETYLENE	1 SET		
7	SPARK LIGHTER	10 UNIT		
8	MANIFOLD GAUGE (COLD MAX USA)	10 UNIT		
9	FLARING & SWAGING SET (FULL SET)	20 UNIT		
10	MINI CUTTER TUBE	20 UNIT		
11	TUBE BENDER 1/4 " (STILL)	10 UNIT		
12	TUBE BENDER 3/8 " (STILL)	10 UNIT		
13	TUBE BENDER 1/2" (STILL)	9 UNIT		
14	TUBE BENDER 5/8 " (STILL)	2 UNIT		
15	REAMER	10 UNIT		
16	FINED COMB	10 UNIT		
17	CUTTER PVC PIPE	5 UNIT		
18	TUKUL KUKU KAMBING	5 UNIT		
19	CLAME METER DIGITAL	10 UNIT		
20	MULTIMETER	10 UNIT		

21	THERMOMETER DIGITAL	10 UNIT		
			B/F	B/F

ITEM	SUBJECT	QTY	RATE	AMOUNT
22	GOOGLE (WHITE COLOUR)	10 UNIT		
23	GOOGLE (BLACK COLOUR)	10 UNIT		
24	TANGGA 8 STEP	3 UNIT		
25	TANGGA 5 STEP	4 UNIT		
26	CONTRACTOR LG 20 AMP	20 UNIT		
27	OVERLOAD 16 - 12 AMP	20 UNIT		
28	PILOT LAMP (RED & GREEN)	10 UNIT		
29	MAP TORCH SET	5 UNIT		
30	DEFROST TIMER 1 SENSOR	2 UNIT		
31	DEFROST TIMER 2 SENSOR	2 UNIT		
32	MASK	10 UNIT		
33	SET KIMPALAN ARKA	2 UNIT		
	<b>TOTAL</b>			

ITEM	SUBJECT	QTY	RATE	AMOUNT
	<b>BAHAN MENTAH</b>			
1	SOFT COPPER 1/4"	15 ROLL		
2	SOFT COPPER 3/8"	15 ROLL		
3	SOFT COPPER 1/2 "	15 ROLL		
4	SOFT COPPER 5/8"	15 ROLL		
5	CONNECTOR 10 MM	24 UNIT		
6	TRUNKING 2 " X 2"	12 BATANG		
7	CASING 1"	30 BATANG		

8	CHEMICAL (UNTUK CUCI AIRCOND)	1 GALLON		
9	DRILL BIT 3.5 MM	5 UNIT		
10	G.I WATER PIPE (1/2 INC) / 6 M & SOCKET JOINT & TEE & ELBOW	20 BATANG		
			B/F	B/F

ITEM	SUBJECT	QTY	RATE	AMOUNT
11	MATA DIE 1/2 INCH (UNTUK PIPE AIR G.I)	10 UNIT		
12	PLUG TOP 12 AMP	20 UNIT		
13	WELDING ROD (ARKA)	5 KOTAK		
14	CABLE 1.25 (BLACK)	3 ROLL		
15	CABLE 1.25 (RED)	3 ROLL		
16	CABLE 2.5 (BLACK)	2 ROLL		
17	CABLE 2.5 (RED)	2 ROLL		
18	CABLE 2.5 (GREEN)	2 ROLL		
19	GAS R22/R12/R134	3 TONG		
20	TIMAH SOLDER	5 ROLL		
21	GAS 410a	1 TONG		
22	BLACK TAPE	60 UNIT		
23	SCHRADER VALVE	30 UNIT		
24	FLARE NUT 1/4" & FLARE UNION	60 UNIT		
25	FLARE NUT 3/8" & FLARE UNION	30 UNIT		
26	FLARE NUT 1/2" & FLARE UNION	30 UNIT		
27	FLARE NUT 5/8" & FLARE UNION	30 UNIT		
28	SILFOS ROD 3% DAN ROD BRASS	80 UNIT		
29	ACCESS VALVE 1/4" SERVICE VALVE	30 UNIT		

30	PLAWOOD 12 mm x 4 x 8	5 KEPING		
31	PLAWOOD 9 mm x 4 x 8	5 KEPING		
32	WALL PLUG PLASTIC 6 mm	10 UNIT		
33	WALL PLUG CONKRIT 10 mm	3 KOTAK		
34	WALL PLUG CONKRIT 12 mm	3 KOTAK		
35	DRY SCREW 1 inch	2 KOTAK		
			B/F	B/F
ITEM	SUBJECT	QTY	RATE	AMOUNT
36	DRY SCREW 1/2 inch	2 KOTAK		
37	SOCKET 15 amp	20 UNIT		
38	SOCKET 13 amp	20 UNIT		
39	BASE SOCKET SINGLE	40 UNIT		
40	TREE CORE WIRE 40/0076	2 ROLL		
41	TREE CORE WIRE 70/0076	1 ROLL		
42	INSULATION (1/4" x 3/8")	30 BATANG		
43	INSULATION (5/8" x 1/2")	30 BATANG		
44	INSULATION TAPE	2 UNIT		
45	FLUX 500 g	4 BOTOL		
46	DOL STARTER 18 amp SET SOKET 15 amp	20 UNIT		
47	ANGLE IRON 2" x 2"	10 BATANG		
48	ANGLE IRON 1" X 1"	10 BATANG		
49	OVERLOAD MOTOR PROTECTION	5 UNIT		
50	STARTING RELAY	5 UNIT		
51	STRAINER	5 UNIT		
52	COMPRESSOR 1 HP	3 UNIT		
53	THERMOSTAT PETI SEJUK	5 UNIT		

	TOTAL			

ITEM	SUBJECT	QTY	RATE	AMOUNT
	<b>SENARAI BARANG TOOL BOX</b>			
1	PVC TOOL BOX	20 UNIT		
2	ADJUSTABLE SPANNER 8"	20 UNIT		
3	6" x 1/4" PLASTIC HANDLE FLAT SCREW DRIVER	20 UNIT		
4	6 " x 1/4" PLASTIC HANDLE PHILIFE SCREW DRIVER	20 UNIT		

			B/F	B/F
--	--	--	-----	-----

ITEM	SUBJECT	QTY	RATE	AMOUNT
5	WIRING HAMMER 16 mm	20 UNIT		
6	TEST PEN 3.5 X 53 mm (STANLEY)	20 UNIT		
7	CUTTER WIRING 8" (SELL)	20 UNIT		
8	SET ALLN KEY	20 UNIT		
9	COMBINATION PLAYER 8"	20 UNIT		
10	LONG NOSE PAYER 8"	20 UNIT		
11	COMBINATION SET SEPANAR 8 mm - 24 mm (JEPUN)	20 UNIT		
12	MEASURING TAPE 3.6 METER	20 UNIT		
13	STELL RULES 10 INCI	20 UNIT		
14	SESIKU L (5 INCI)	20 UNIT		
	TOTAL			

ITEM	SUBJECT	QTY	RATE	AMOUNT
	<b>SENARAI ASET</b>			
1	WALL MOUNTED SPLIT UNIT 1.0 hp (YORK)	10 UNIT		
2	WALL MOUNTED SPLIT UNIT 1.0 hp INVERTER (PANASONIC)	1 UNIT		
3	CEILING EXPOSED SPLIT UNIT 1.5 hp (YORK)	2 UNIT		

4	CEILING CASSET SPLIT UNIT 2.0 hp (YORK)	1 UNIT		
5	WINDOW UNIT 1.5 hp YORK	5 UNIT		
6	PETI SEJUK SATU PINTU (PANASONIC)	2 UNIT		
7	WORK BENCH	10 UNIT		
8	VICE (RAGUM MEJA)	10 UNIT		
9	BENCH DRILL	1 UNIT		
10	FILE MACHINE	1 UNIT		
11	WALL FAN	4 UNIT		
12	RAK ALATAN	4 UNIT		
			B/F	B/F

ITEM	SUBJECT	QTY	RATE	AMOUNT
13	RECOVERY & RECYCLE MACHINE (PRO SET)	1 SET		
14	CYLINDER RECOVERY MACHINE (KUNING)	2 UNIT		
15	VACUUM CLEANER (WEST POINT)	1 UNIT		
16	VACUUM PUMP (MERK ROBINAIR)	5 UNIT		
17	HAND DRILL (BOSCH)	1 UNIT		
18	CORD LESS (BOSCH)	2 UNIT		
19	FIBRE CUTTING MACHINE (BOSCH)	1 UNIT		
20	GRINDER TANGAN (BOSCH)	1 UNIT		
21	JIGSAW ELECTRIC	1 UNIT		
22	MATA DRILL FULL SET BATU & BESI 0.5 mm - 14 mm (BOSCH)	2 UNIT		
23	MATA DRILL TEBUK LUBANG AIRCOND PLAYWOOD (2 INCI)	1 UNIT		
24	EXZOS FAN 1hp (ACSON)	5 UNIT		
25	AIR CURTERN (ACSON)	2 UNIT		
	TOTAL			

ITEM	SUBJECT	QTY	RATE	AMOUNT
	<b>PERBELANJAAN UBAH SUAI BENGKEL UNTUK TEMPAT KERJA (WORKING BAY)</b>			
1	BAY TEMPAT KERJA	20 UNIT		
2	PAPAN TANDA KESELAMATAN	2 UNIT		
3	STICKER UNTUK SOP MACHINE	20 UNIT		
	TOTAL			

**SUMMARY**

REF	DESCRIPTION	AMOUNT
1	PERALATAN BAHAN	
2	MENTAH BARANG	
3	TOOL BOX ASET	
4	PERBELANJAAN UBAH SUAI BENGKEL UNTUK TEMPAT KERJA	
5	JUMLAH KESELURUHAN	

RINGGIT MALAYSIA :

TANDATANGAN :

COP SYARIKAT :