**BILL OF QUANTITY PROJECT STEEL CUTTING MACHINE**

**ELECTRICAL WORKSHOP REPORT**

**4th SEMESTER**

NAME : AHMAD YON KHOERUL

NIM : 4315040006

CLASS : TEKNIK OTOMASI LISTRIK INDUSTRI/TEKNIK ELEKTRO

NO CABIN : 5 (LIMA)

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| NO | NAME | SPECIFICATION | AMOUNT | UNIT COST | TOTAL COST |
| 1 | MCCB | 3 Phase 32A 415 V, 50/60 Hz  Schneider Electric | 1 | IDR 350.000 | IDR 350.000 |
|  |  | 3 Phase 10A 415 V, 50/60 Hz  Schneider Electric | 1 | IDR 193.000 | IDR 193.000 |
|  |  | 3 Phase 25A 415 V, 50/60 Hz  Schneider Electric | 2 | IDR 293.000 | IDR 586.000 |
|  |  | 1 Phase 2A 415 V, 50/60 Hz  Schenider Electric | 1 | IDR 47.500 | IDR 47.500 |
| 2 | ELCB | 4 POLES SENSITIVITY 300Ma 25A | 1 | IDR 425.000 | IDR 425.000 |
| 3 | BUSBAR | COOPER SIZE 100mm x 20mm x 10mm | 2 | IDR 25.000 | IDR 50.000 |
| 4 | PANEL BOX | 60cm (L) x 80cm (t) x 20cm (T) | 1 | IDR 1.080.000 | IDR 1.080.000 |
| 5 | CONTACTOR | 3 Phase 25A/12A, 1 NO and 1 NC 380V,50/60 Hz  Telemecanique | 3 | IDR 166.500 | IDR 499.500 |
| 6 | TOR | 3 Phase Temp (-25°) – (+60°) Range 5,7 A – 7,6 A  Aux 1 NO and 1 NC | 3 | IDR 300.000 | IDR 900.000 |
| 7 | ISOLATOR BUSBAR | Diameter 35mm | 4 | IDR 6000 | IDR 24.000 |
| 8 | PLC | Source 220VAC, 50/60 Hz Input DC 24V, Output AC 24 Inputs, 16 Outputs OMRON CPM2A | 1 | IDR 5.250.000 | IDR 5.250.000 |
| 9 | RS 232 | CABLE FOR DATA OMRON | 1 | IDR 280.000 | IDR 280.000 |
| 10 | CABLE DUCK PVC TRUNKING | 32mm x 45mm x 1700mm | 3 | IDR 25.000 | IDR 75.000 |
|  |  | 100mm x 100mm 1700mm | 2 | IDR 150.000 | IDR 300.000 |
| 11 | PUSHBUTTON | Diameter 25mm 1 NO 3 GREEN | 3 | IDR 10.000 | IDR 30.000 |
| 12 | CABLE TERMINAL | 52 POLES PLASTIC | 6 | IDR 20.000 | IDR 120.000 |
| 13 | INDIKATOR LAMP | 220VAC, 50/60Hz 20mA  Green 6 yellow 3 Red 1 | 10 | IDR 12.500 | IDR 125.000 |
| 14 | SELECTOR SWITCH | 2 Mode 1 Off | 1 | IDR 90.000 | IDR 90.000 |
|  |  | 3 Mode 1 Off | 1 | IDR 150.000 | IDR 150.000 |
| 15 | G PROFIL | 1 METER | 2 | IDR 10.000 | IDR 20.000 |
| 16 | PROXIMITY SENSOR | Power Supply 5 VDC, 3-80 Cm Adjustable supply curent DC 25mA maximum load curent 200mA | 4 | IDR 70.000 | IDR 280.000 |
| 17 | SELENOID VALVE | Air or Water Control OEM | 2 | IDR 65.000 | IDR 65.000 |
| 18 | COMPRESSOR MOTOR | 50/60 Hz, 3Hp/2,2 KW 750 rpm -3000 rpm Yutong Motor | 1 | IDR 5.000.000 | IDR 5.000.000 |
| 19 | AC MOTOR | 3 Phase 380V 50/60 Hz 5 KW | 2 | IDR 5.700.000 | IDR 11.400.000 |
| NO | NAME | SPECIFICATION | AMOUNT | UNIT COST | TOTAL COST |
| 20 | CABLE | NYAF 1.5 mm2 (ROLL) | 3 | IDR 200.000 | IDR 600.000 |
|  |  | NYY 4 x 2.5 mm2 (ROLL) | 1 | IDR 1.700.000 | IDR 1.700.000 |
|  |  | NYY 4 x 25 mm2 (Meter) | 10 | IDR 115.000 | IDR 1.150.000 |
| 21 | ROLLER CONVEYOR | ROLL STAINLESS STEEL | 1 SET | IDR 37.700.000 | IDR 37.700.000 |
| 22 | HMI | 8 Inchi Shihilin Ethernet EU208-CT11  110/220V RS232/422/485  Work to PLC OMRON | 1 | IDR 19.000.000 | IDR 19.000.000 |
| 23 | NH FUSE | 220V-415V  25A | 3 | IDR 50.000 | IDR 150.000 |
| TOTAL HARGA | | | | IDR 866.640.000 | |