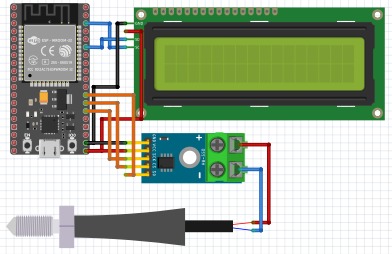
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Kepada | : | Pimpinan | Tanggal | : | 24 Oktober 2024 |
| Dari | : | Departemen IT | CC | : | IC |

Perihal :  ***Monitoring Sensor Suhu Oven Produksi Kerupuk***

1. **Latar Belakang Pengajuan**

Sehubungan dengan adanya pengembangan pembahasan terkait Monitoring Sensor Suhu di Oven Produksi Kerupuk pihak IT ingin mengajukan pembelian sparepart alat sensor yang di butuhkan

1. **Detail / Bentuk Pengajuan**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Nama Barang** | **Spesifikasi** | **Jumlah Unit** | **Jumlah (Rp.)** |
| 1 | ESP32 ESP-32 DOIT WIFI BLUETOOTH IOT ESP-32S DEVELOPMENT BOARD <https://tokopedia.link/QnwxP4av3Hb> | - Operating voltage : 3.3V - Input voltage : 7-12V (Vin) - Digital IO Pin (DIO) : 25 - Analog Input Pin (ADC) : 6 - UART : 3 - SPI : 2 - I2C : 3 - Flash Memory 4 MB - SRAM : 520 KB - Clock Speed : 240 Mhz - Wi Fi : IEEE 802.11 b/g/n/e/i **Harga : Rp 59.000** | 2 | Rp 122.000 |
| 2 | Thermocouple Probe Type K Drat M8 1.25mm Thermocouple Model Probe - 200mm, Kabel 2 Meter<https://tokopedia.link/TRj9sRZu3Hb> | - temperature range : 0°C to 400°C - accuracy : +/- 2.2°C - panjang kabel : 2 meter / 5 meter - drat baut : Kasar 1.25mm (M8)  **Harga : Rp 60.000** | 2 | Rp 120.000 |
| 3 | K-TYPE THERMOCOUPLE MAX6675 HIGH TEMPERATURE SENSOR FOR ARDUINO <https://tokopedia.link/yXoYU34XcGb> | - Using MAX6675 12bit (temperature range 0C to 1024C) - Operating voltage: 3.0V ~ 5.5V - Internal integrated cold junction compensation circuit; - With a simple three serial interface; - Temperature signal can be converted into 12-bit digital - Temperature resolution of: 0.25 Degree; tduino  - Type K temperature range 0-800 degrees  **Harga : Rp 30.100** | 2 | Rp 60.200 |
| 4 | LCD 1602 CHAR GREEN BACKLIGHT WITH I2C SERIAL INTERFACE MODULE <https://tokopedia.link/uwG22L9w3Hb> | - LCD Karakter 1602 dengan I2C modul untuk Arduino - Jenis LCM: Karakter - Menampilkan 2 baris X 16-karakter. - Tegangan: 5V DC. - Dimensi modul: 80mm x 35mm x 11mm. - luas area: 64.5mm x 16mm - Fitur IIC / I2C 4 kabel  l**Harga : Rp. 23.500** | 2 | Rp 47.000 |
| 5 | BOX ELEKTRONIK X5 KOTAK RANGKAIAN ARDUINO 14,5 X 9,5 X 5 CM <https://tokopedia.link/xKQw7q1w3Hb> | - BOX Type : X5 - Dimensi : 14.5cm x 9.5 cm x 5cm - Bahan : Plastik Tebal Berkualitas (Tidak mudah pecah/cukup Kuat) - Warna : Hitam legam - Penginci : Skrup 5m (Tidak Include)  **Harga : Rp. 12.000** | 2 | Rp 24.000 |
| 6 | KIPAS FAN 3B 5V 0.2A 18DB 13200RPM 5M3/H WITH SCREW RASPBERRY NODEMCU <https://tokopedia.link/EgtY4hi57Fb> | Wire of the fans : 28-30CM around Size : 30\*30mm Noise: 18 db  Number of revolutions: 13200RPM Air Volume: 5 m3 / h Current: 0.2A-0.16A Operating voltage: 4.5-5V Rated voltage: DC5V  **Harga : Rp. 13.000** | 2 | Rp 26.000 |
| 7 | CONNECTOR XH2.54 2P PIN FEMALE 10CM CABLE JST 2.54MM SOCKET CON STOCKO | - Wire Type: 24AWG -Connector Type: 2Pin JST Plug -Pin Pitch: 2.54mm -Cable Length: 10cm / 7.9"" -Connector Size : 8 x 8 x 5.8mm / 0.31"" x 0.31"" x 0.22""(L x W x H)  **Harga : Rp. 700** | 10 | Rp 7000 |
| 8 | POTENSIO POTENSIOMETER 100K 100KOHM WH148 LINIER TAPER ROTARY <https://tokopedia.link/vCdzXkvw3Hb> | - 100K OHM Linear Taper Rotary  - Adjustment Type: Top Adjustment - Power: 1/2W - Resistance: 100K OHM OHMS - Type : Linear (B) - Knurled Shaft - Suits Most Standard knobs - Shaft Diameter: 6mm - Shaft Length: 10mm - Mounting Hole: 7.5mm - Base Diameter: 16mm  **Harga : Rp. 1.800** | 3 | Rp 5.400 |
| 9 | CONNECTOR XH2.54 4P PIN FEMALE 20CM CABLE JST 2.54MM SOCKET CON STOCKO <https://tokopedia.link/Xtl5Ekoy3Hb> | - Wire Type: 24 AWG/26 AWG (dikirim sesuai stok yang ada di gudang tidak terima komplain beda ukuran kabel) -Connector Type: 4 Pin JST Plug -Pin Pitch: 2.54mm -Cable Length: 20cm / 7.9"" -Connector Size : 8 x 8 x 5.8mm / 0.31"" x 0.31"" x 0.22""(L x W x H)  **Harga :Rp 2.500** | 10 | Rp 25.000 |
| 10 | ENC28J60 Ethernet LAN Network Module - MINI <https://tokopedia.link/tD9F6JnSxHb> | - ENC28J60/SS Chip - 25MHz Crystal - Netowrk interface board HR911105A - 3.3V Power supply pin  **Harga : Rp 65.000** | 2 | Rp 130.000 |
|  |  |  |  |  |
| 11 | BASE PLATE EXTENSION ESP32 SHIELD ESP32 DOIT V1 30P PLUS ADAPTOR 9V 1A <https://tokopedia.link/5G7ZnEAv3Hb> | - Base For ESP32 DOIT V1 - Expantion I/O - Expantion Power Vcc/GND - Input Power : Type-C, Micro USB, Jack DC, adaptor 5-12V - Dimensi : P4 x L2 x T1cm  **Harga : Rp 34.000** | 2 | Rp 64.000 |
| **Jumlah Total** | | | | **Rp 630.600** |

Berikut sparepart pendukung yang dibutuhkan untuk terealisasinya project

|  |  |  |  |
| --- | --- | --- | --- |
| Nama Barang | Jumlah Barang | Harga Barang | |
| Stopkontak 2 Pin | 2 | Rp 10.000 | Rp 20.000 |
| Steker | 2 | Rp 11.500 | Rp 23.000 |
| Mata Solder | 1 | Rp 25.000 | Rp 25.000 |
| Timah Solder Kecil | 1 | Rp 32.000 | Rp 32.000 |
| Total | | | Rp 100.000 |

1. **Lampiran Pendukung**
2. **Kesimpulan & Penutup**

Dengan adanya project pembuatan Monitoring Sensor Suhu Oven Produksi Kerupuk diharapkan dapat menekan budget untuk pembeliaan alat sensor

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| Hormat Kami, |  | Pengajuan Disetujui : |
| Dibuat & Diajukan,  […………………..] | Diperiksa & Diketahui,  [………………….] | [………………….] |
|  |  | Catatan : |