





LAMPIRAN

1. Program Arduino

```
*/  
  
#include <LiquidCrystal_I2C.h>  
  
#include "HX711.h"  
  
  
LiquidCrystal_I2C lcd(0x27, 16, 2);  
  
HX711 scale(5, 6);  
  
float calibration_factor = 22200; // this  
calibration factor is adjusted according to my load  
cell  
  
float units;  
float ounces;  
  
const int relay = 7;  
const int btn = 4;  
int runn = 0;  
void setup() {  
    Serial.begin(9600);  
    pinMode(relay, OUTPUT);  
    pinMode(btn, INPUT_PULLUP);  
    digitalWrite(relay, LOW);  
    lcd.begin(); // initialize the LCD  
    lcd.backlight();  
    lcd.clear();  
    lcd.setCursor(0, 0);  
    lcd.print("Memulai");  
    Serial.println("OKOKOK");  
    scale.set_scale();  
    scale.tare(); //Reset the scale to 0
```

```

    long zero_factor = scale.read_average(); //Get a
    baseline reading

    Serial.print("Zero factor: "); //This can be used
    to remove the need to tare the scale. Useful in
    permanent scale projects.

    Serial.println(zero_factor);

    delay(1000);

    lcd.clear();
}

void loop() {

    scale.set_scale(calibration_factor); //Adjust to
    this calibration factor

    Serial.print("Reading: ");
    units = scale.get_units(), 10;
    if (units < 0)
    {
        units = 0.00;
    }
    ounces = units * 0.035274;
    Serial.print(units);
    Serial.print(" kg");
    Serial.print(" calibration_factor: ");
    Serial.print(calibration_factor);

    Serial.println();

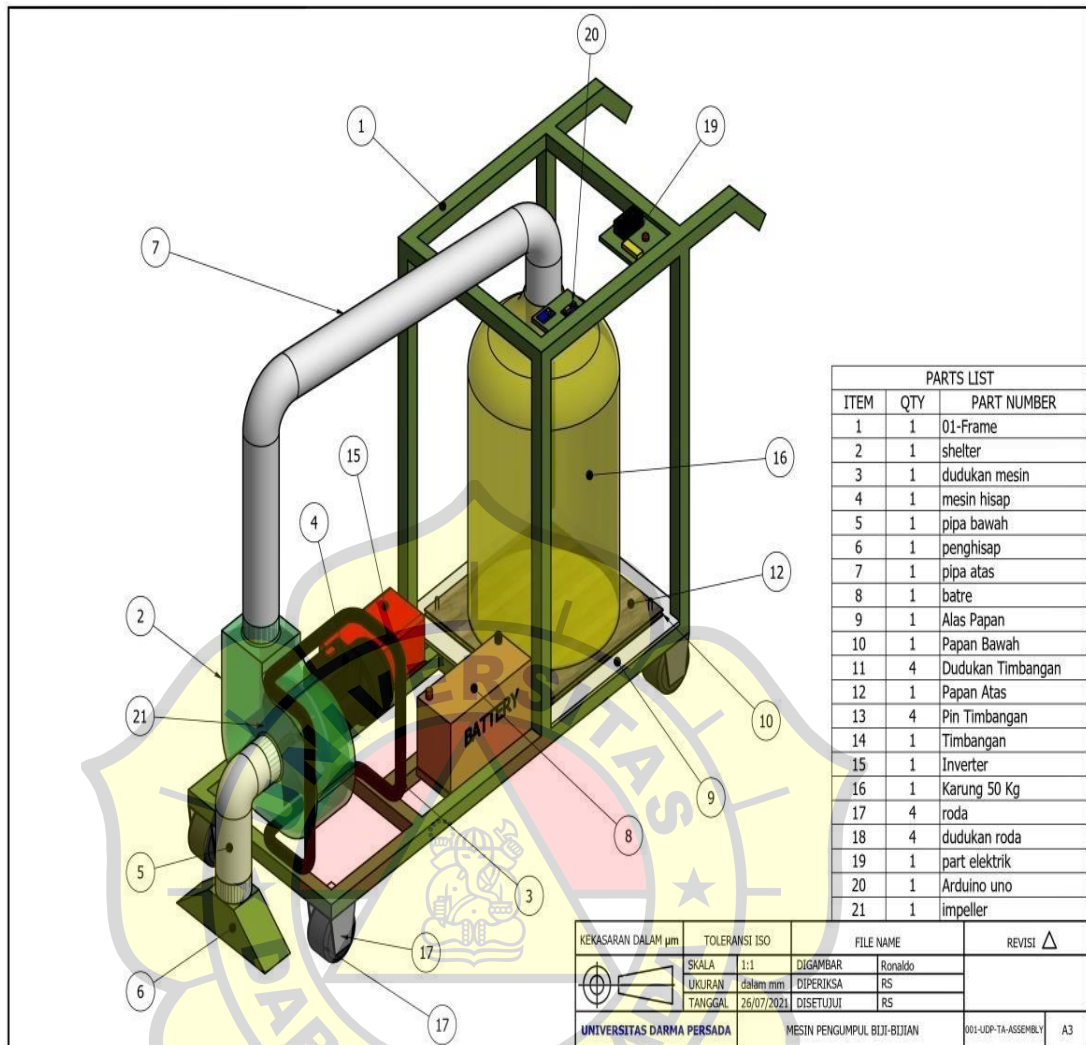
    lcd.setCursor(0, 0);
    lcd.print("Berat: ");
    lcd.setCursor(7, 0);
    lcd.print(units);
}

```

```
lcd.setCursor(11, 0);  
lcd.print(" kg ");  
lcd.setCursor(8, 1);  
lcd.print("Fan ");  
if (runn == 1){  
    digitalWrite(relay, HIGH);  
    lcd.setCursor(12, 1);  
    lcd.print("ON ");  
    if (units >= 20){  
        digitalWrite(relay, LOW);  
        runn = 0;  
    }  
    if (digitalRead(btn) == LOW){  
        digitalWrite(relay, LOW);  
        runn = 0;  
        delay(1000);  
    }  
}  
else if (runn == 0){  
    lcd.setCursor(0, 1);  
    lcd.print("Standby");  
    lcd.setCursor(12, 1);  
    lcd.print("OFF");  
    digitalWrite(relay, LOW);  
}  
if (digitalRead(btn) == LOW){  
    runn = 1;
```

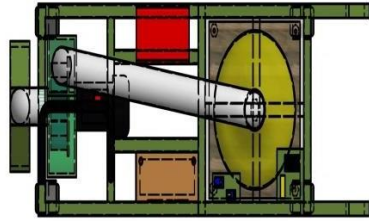
```
delay(1000);  
lcd.setCursor(0, 1);  
lcd.print("Running");  
}  
delay(50);  
}
```



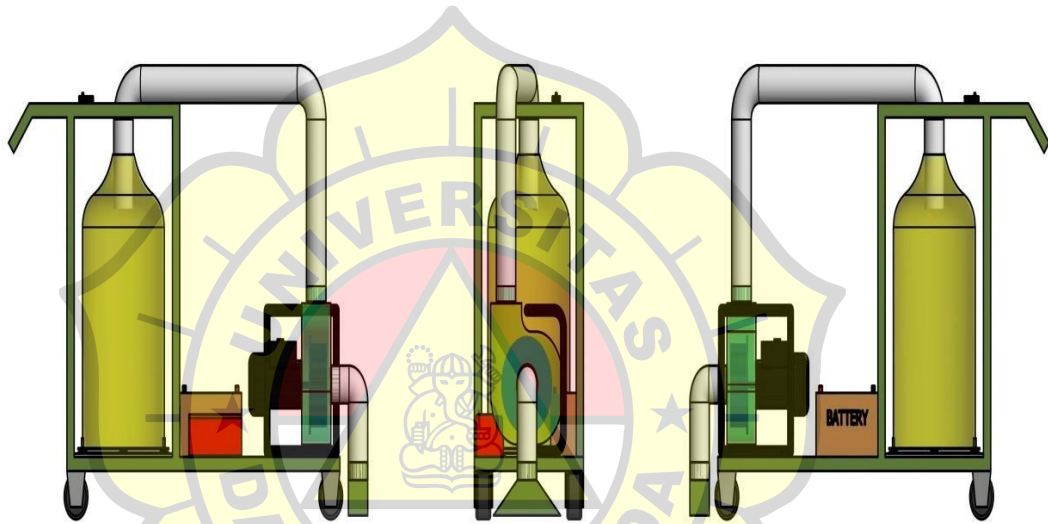


PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	01-Frame
2	1	shelter
3	1	dudukan mesin
4	1	mesin hisap
5	1	pipa bawah
6	1	penghisap
7	1	pipa atas
8	1	batre
9	1	Alas Papan
10	1	Papan Bawah
11	4	Dudukan Timbangan
12	1	Papan Atas
13	4	Pin Timbangan
14	1	Timbangan
15	1	Inverter
16	1	Karung 50 Kg
17	4	roda
18	4	dudukan roda
19	1	part elektrik
20	1	Arduino uno
21	1	impeller

KEKASARAN DALAM μm	TOLERANSI ISO	FILE NAME	REVISI Δ
	SKALA 1:1	DIGAMBAR Ronaldo	
	UKURAN dalam mm	DIPERIKSA RS	
	TANGGAL 26/07/2021	DISETUJUI RS	
UNIVERSITAS DARMA PERSADA		MESIN PENGUMPUL BIJI-BIJIAN	001-UDP-TA-ASSEMBLY A3



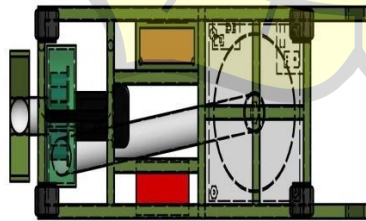
TAMPAK ATAS



TAMPAK SAMPIG KIRI

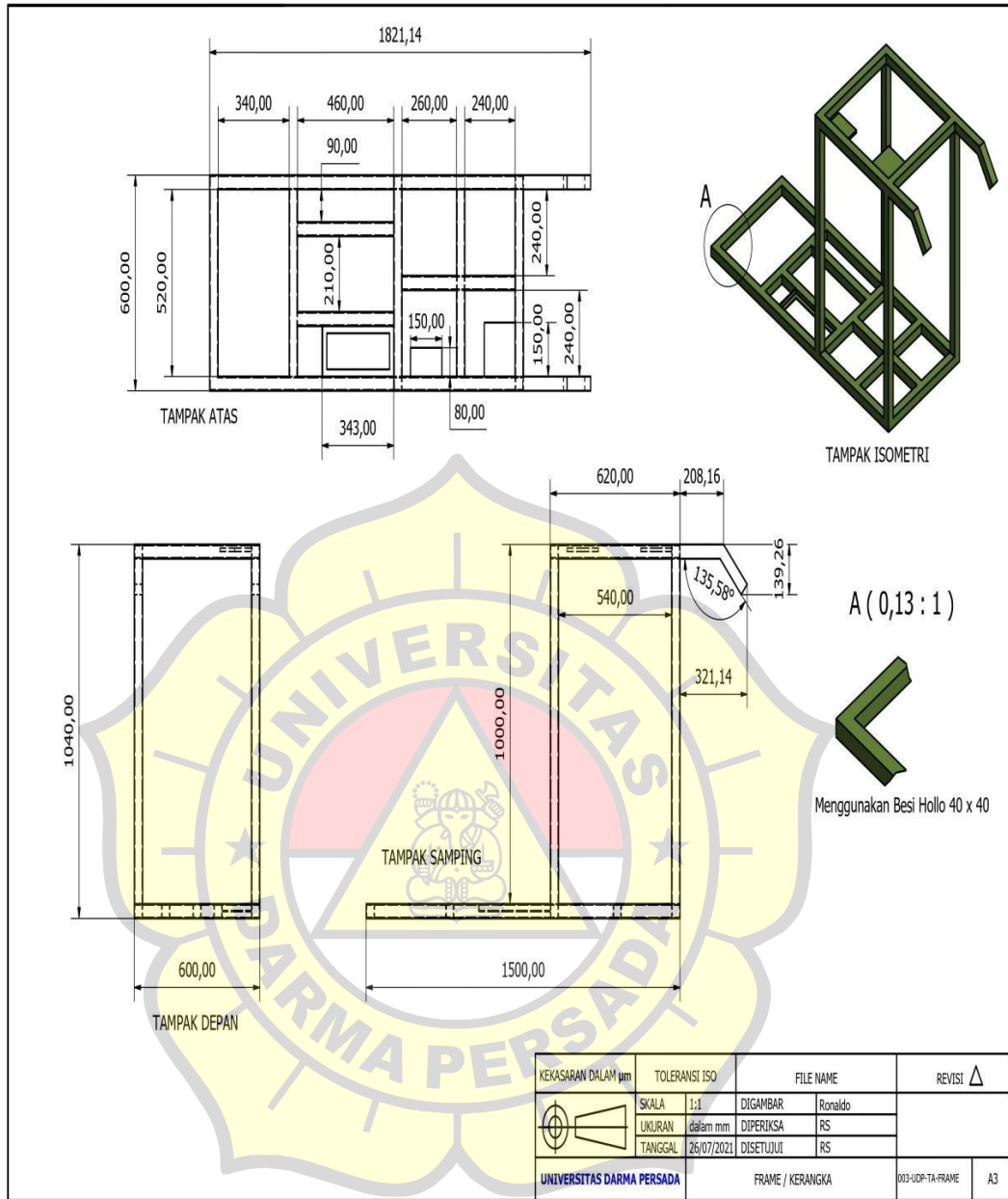
TAMPAK DEPAN

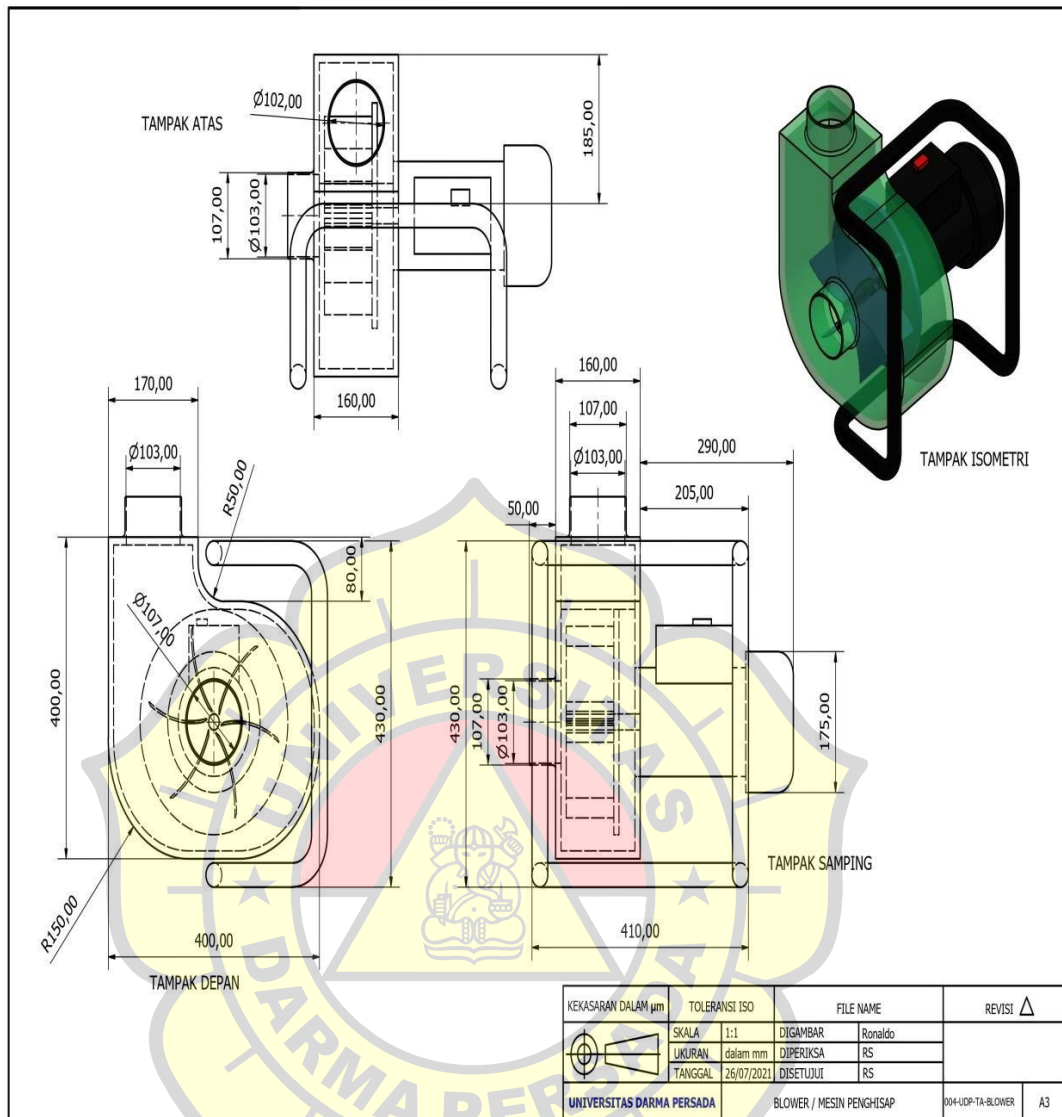
TAMPAK SAMPIG KANAN



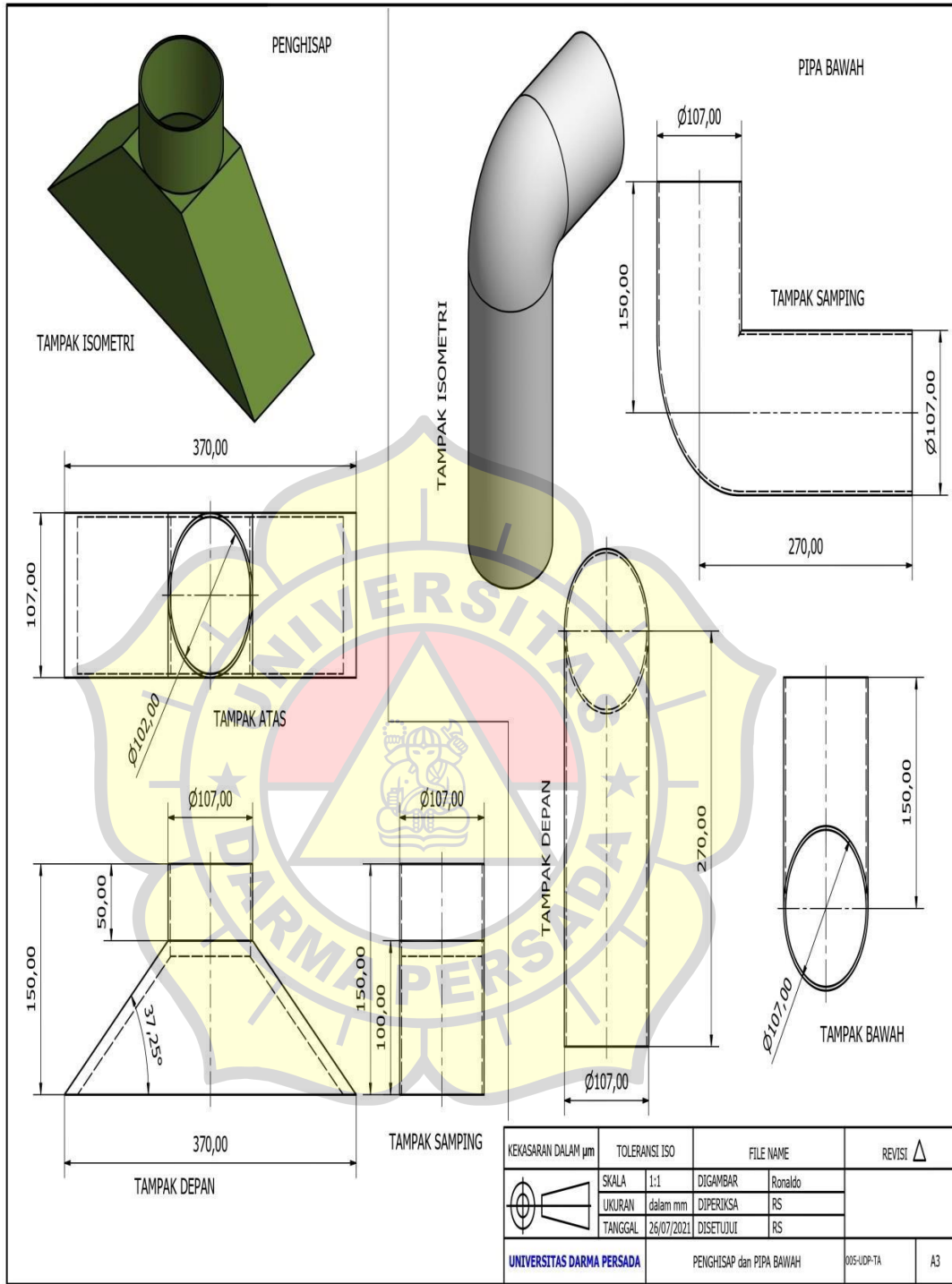
TAMPAK BAWAH

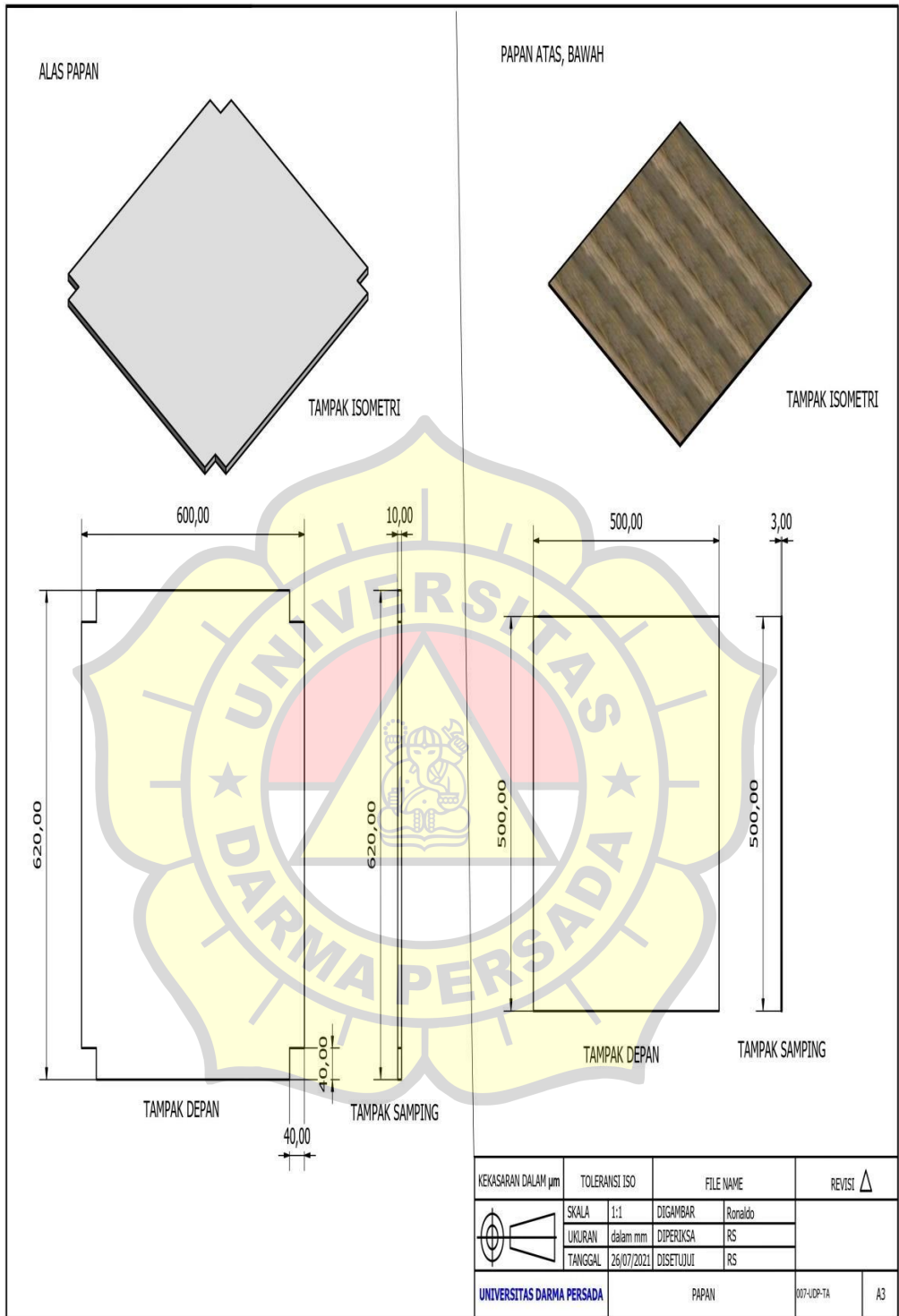
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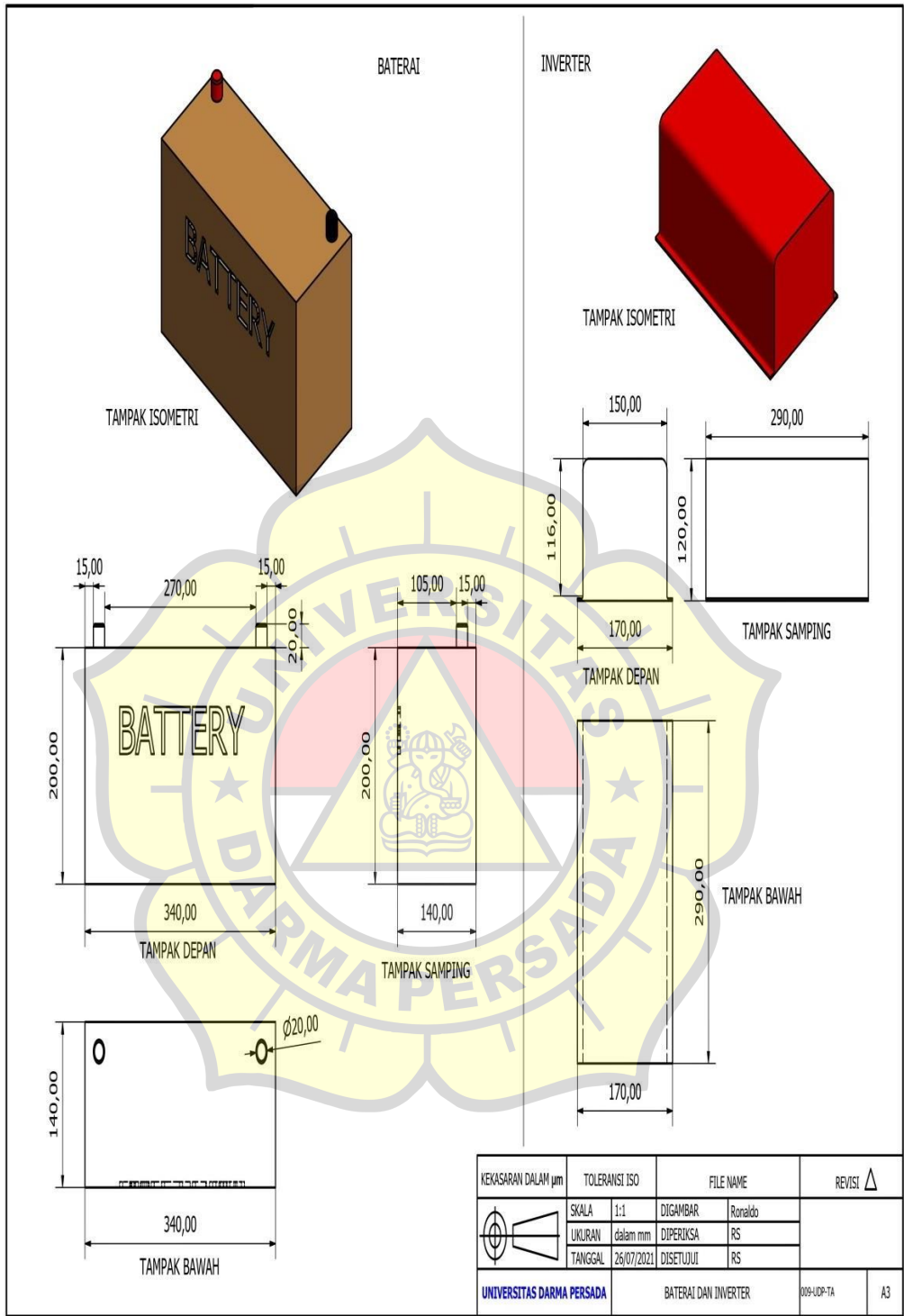


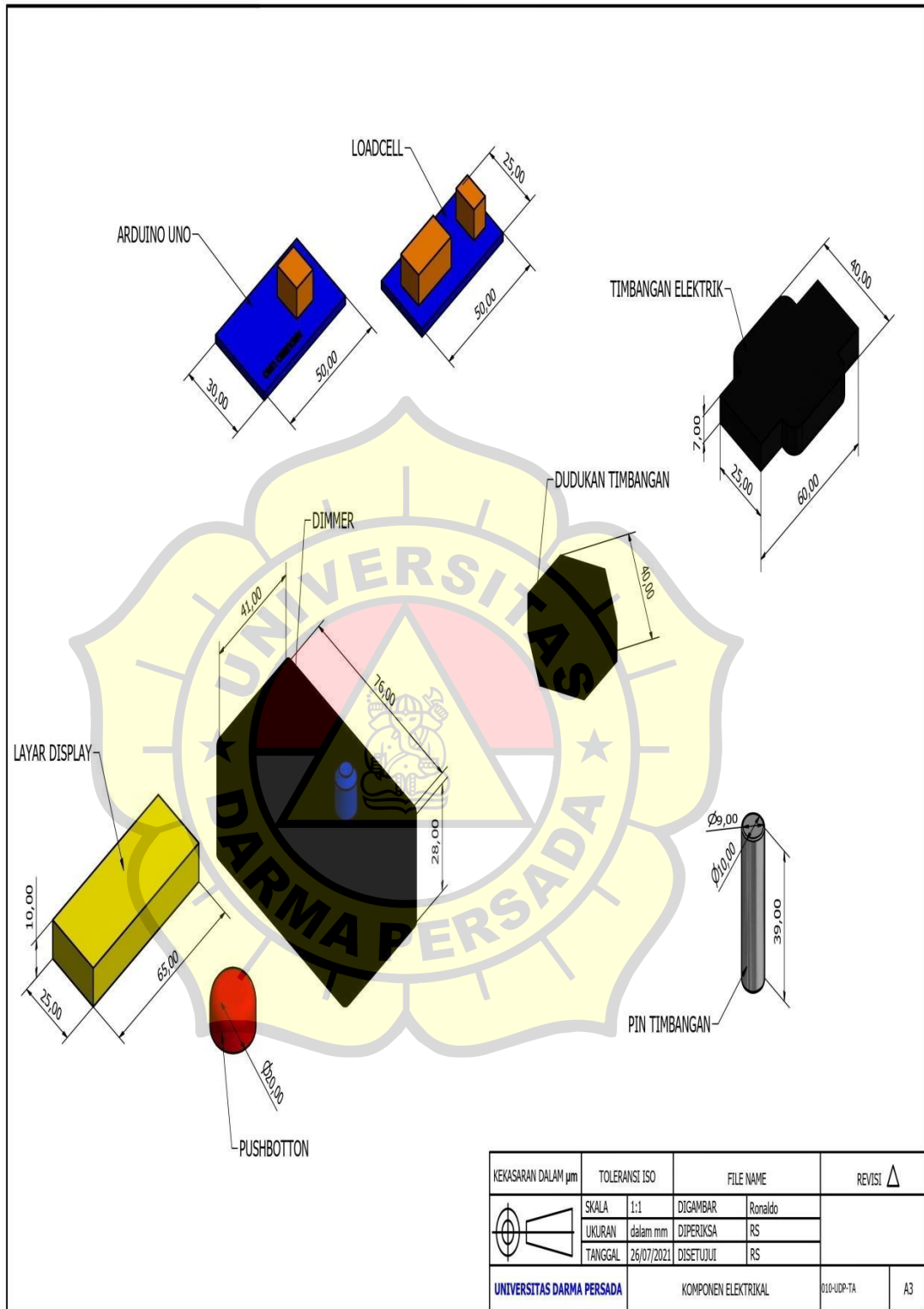


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	SKALA	1:1	DIGAMBAR	Ronaldo
	UKURAN	dalam mm	DIPERIKSA	RS
	TANGGAL	26/07/2021	DISETUJUI	RS
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