

# LAMPIRAN

### Lampiran 1. Deskripsi Bawang Merah Varietas Bima Brebes

#### LAMPIRAN SURAT KEPUTUSAN MENTERI PERTANIAN

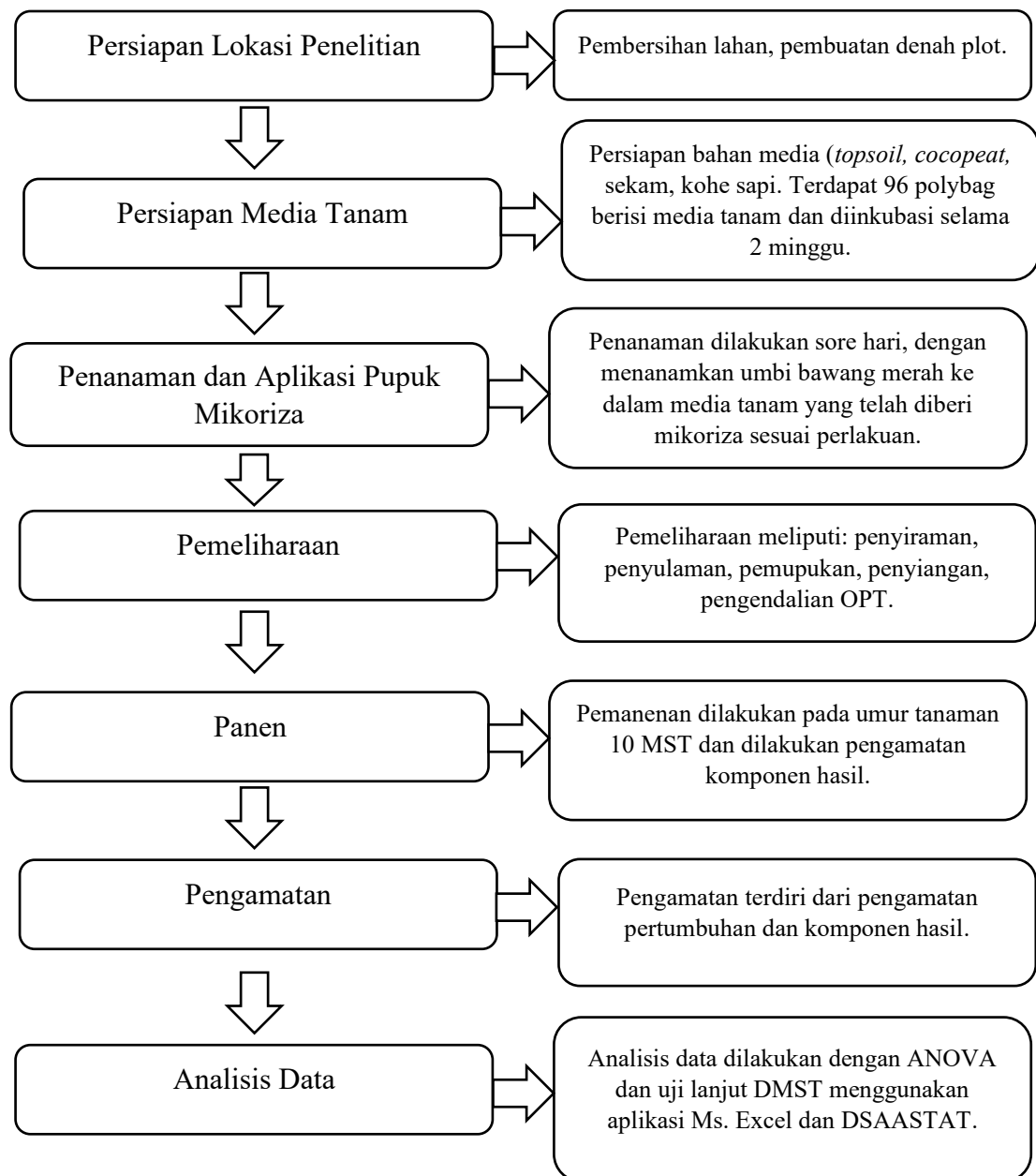
NOMOR : 594/Kpts/TP.240/8/1984

TANGGAL : 11 Agustus 1984

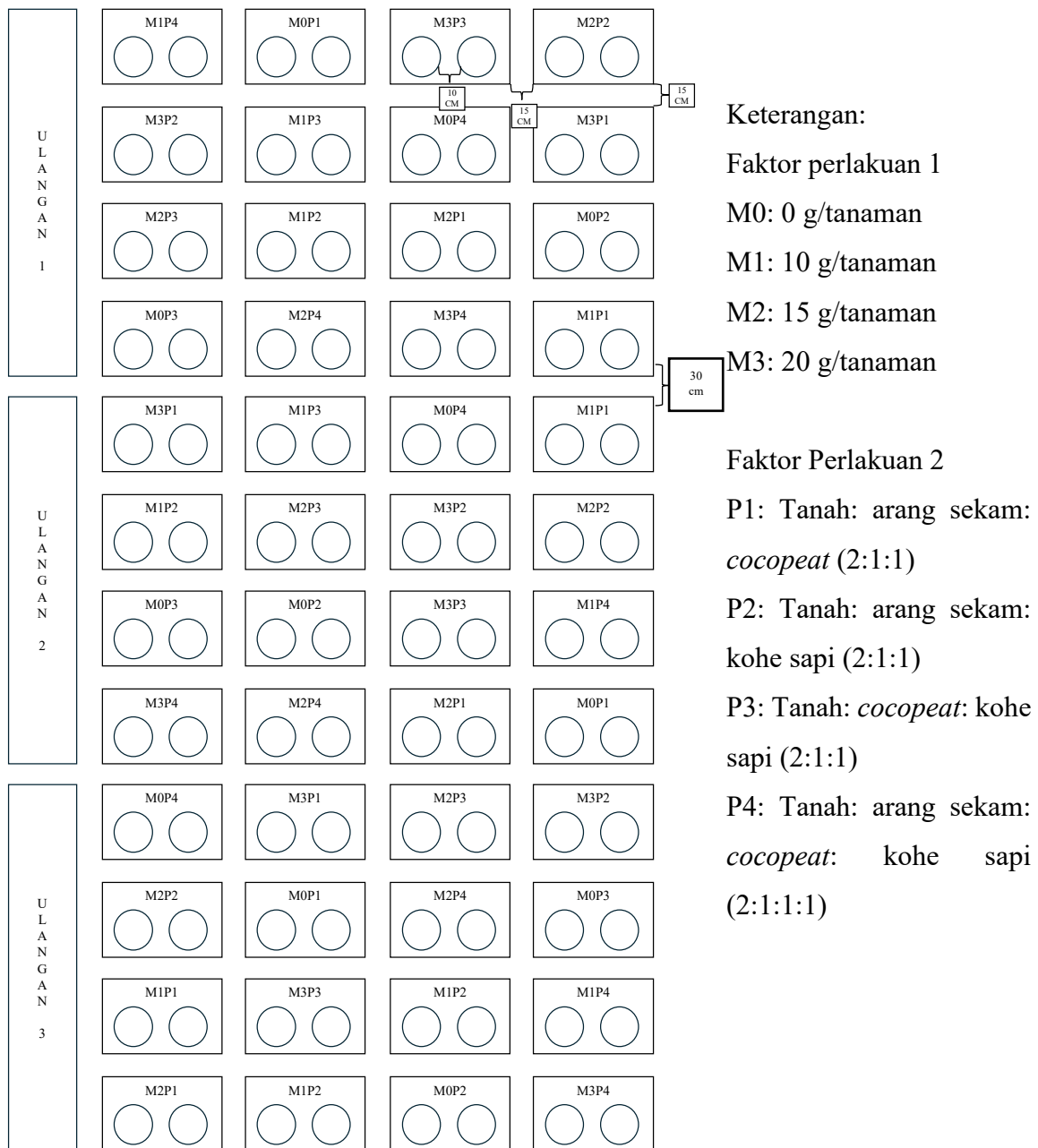
#### DESKRIPSI BAWANG MERAH VARIETAS BIMA BREBES

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Asal                            | : Lokal Brebes                                                      |
| Umur                            | : - Mulai berbunga 50 hari<br>- Panen (60 % batang melemas) 60 hari |
| Tinggi tanaman                  | : 34,5 cm (25 – 44 cm)                                              |
| Kemampuan berbunga (alami)      | : Agak sukar                                                        |
| Banyak anakan                   | : 7 – 12 umbi per rumpun                                            |
| Bentuk daun                     | : Silindris, berlubang                                              |
| Warna daun                      | : Hijau                                                             |
| Banyak daun                     | : 14 – 50 helai                                                     |
| Bentuk bunga                    | : Seperti payung                                                    |
| Warna bunga                     | : Putih                                                             |
| Banyak buah/tangkai             | : 60 – 100 (83)                                                     |
| Banyak bunga/tangkai            | : 120 – 160(143)                                                    |
| Banyak tangkai bunga/rumpun     | : 2 – 4                                                             |
| Bentuk biji                     | : Bulat, gepeng, berkeriput                                         |
| Warna biji                      | : Hitam                                                             |
| Bentuk umbi                     | : Lonjong bercincin kecil pada leher cakram                         |
| Warna umbi                      | : Merah muda                                                        |
| Produksi umbi                   | : 9,9 ton/ha umbi kering                                            |
| Susut bobot umbi (basah-kering) | : 21,5 %                                                            |
| Ketahanan terhadap penyakit     | : Cukup tahan terhadap busuk umbi ( <i>Botrytis allii</i> )         |
| Kepekaan terhadap penyakit      | : Peka terhadap busuk ujung daun ( <i>Phytophthora porri</i> )      |
| Keterangan                      | : Baik untuk dataran rendah                                         |
| Peneliti                        | : Hendro Sunarjono, Prasodjo, Darliah dan Nasran Horizon Arbain     |

## Lampiran 2. Alur Pelaksanaan Penelitian



### Lampiran 3. Tata Letak Sampel Penelitian



Jarak antar *polybag* pada satuan percobaan : 8 cm

Jarak antar satuan percobaan : 15 cm

Jarak antar ulangan : 30 cm



**Lampiran 5. Perhitungan Kebutuhan Pupuk Mikoriza Arbuskula**

Diketahui:

M0: 0 g/tanaman

M1: 10 g/tanaman

M2: 15 g/tanaman

M3: 20 g/tanaman

M0 = 0 g pupuk hayati

M1 = 24 *polybag* x 10 g = 240 g pupuk hayati mikoriza arbuskula

M2 = 24 *polybag* x 15 g = 360 g pupuk hayati mikoriza arbuskula

M3 = 24 *polybag* x 20 g = 480 g pupuk hayati mikoriza arbuskula

Kebutuhan pupuk hayati mikoriza arbuskula

= M0 + M1 + M2 + M3

= 0 + 240 + 360 + 480 = 1.080 g

## Lampiran 6. Perhitungan Kebutuhan Media Tanam

Diketahui:

P1: Tanah: arang sekam: *cocopeat* (2:1:1)

P2: Tanah: arang sekam: kohe sapi (2:1:1)

P3: Tanah: *cocopeat*: kohe sapi (2:1:1)

P4: Tanah: arang sekam: *cocopeat*: kohe sapi (2:1:1:1)

Kombinasi media tanam pada setiap *polybag* sebanyak : 2 kg

- Kebutuhan Tanah:

P1= 24 *polybag* x 1 kg = 24 kg

P2= 24 *polybag* x 1 kg = 24 kg

P3= 24 *polybag* x 1 kg = 24 kg

P4= 24 *polybag* x 0,8 kg = 19,2 kg

Total tanah yang dibutuhkan = 24 + 24 + 24 + 19,2 = 91,2 kg tanah

- Kebutuhan arang sekam:

P1= 24 *polybag* x 0,5 kg = 12 kg

P2= 24 *polybag* x 0,5 kg = 12 kg

P3= tanpa arang sekam

P4= 24 *polybag* x 0,4 kg = 9,6 kg

Total arang sekam yang dibutuhkan = 12 + 12 + 9,6 = 33,6 kg arang sekam

- Kebutuhan *cocopeat*:

P1= 24 *polybag* x 0,5 kg = 12 kg

P2= tanpa *cocopeat*

P3= 24 *polybag* x 0,5 kg = 12 kg

P4= 24 *polybag* x 0,4 kg = 9,6 kg

Total *cocopeat* yang dibutuhkan = 12 + 12 + 9,6 = 33,6 kg *cocopeat*

- Kebutuhan kohe sapi:

P1= tanpa kohe sapi

P2= 24 *polybag* x 0,5 kg = 12 kg

P3= 24 *polybag* x 0,5 kg = 12 kg

P4= 24 *polybag* x 0,4 kg = 9,6 kg

Total kohe sapi yang dibutuhkan = 12 + 12 + 9,6 = 33,6 kg kohe sapi



## Lampiran 7. Deskripsi Produk Pupuk Hayati Mikoriza



Produk pupuk hayati mikoriza  
(Sumber: bumikita.id)

### KANDUNGAN:

- *Glomus* sp. : 53 spora/g
- *Enterospora* : 52 spora/g
- *Gigaspora* : 28 spora/g
- *Acaulospora* : 36 spora/g
- Dengan bahan pembawa vermiculite dan pasir steril

### PEMAKAIAN:

Untuk tanaman hortikultura:

- Pembibitan dalam polybag: Campurkan tiap 1 kg MYCOVIR dengan 5 kg tanah halus, aduk rata dan berikan ke lubang biji benih 1/2 sendok teh
- Tanaman cabai, semangka, melon, tomat, timun dll: Berikan 1/2 - 1 sendok teh MYCOVIR ke lubang tanam sebelum bibit ditanam (posisi di bawah perakaran)

Keterangan: *Harus bersentuhan dengan perakaran tanaman*

### LEGALITAS :

- *SK Kementan* : No . 046.OL/Kpts/SR.310/B/01/2017
- *No Pendaftaran* : 03.01.2017.003

### Lampiran 8. Data Cuaca Kab. Serang



ID WMO : 96737  
 Nama Stasiun : Stasiun Meteorologi Maritim  
 Lintang : -6.11185  
 Bujur : 106.11000  
 Elevasi : 100

| Tanggal    | Tn   | Tx   | RH avg | RR     |
|------------|------|------|--------|--------|
| 01/10/2024 | 23.9 | 35.2 | 77     | 0.0    |
| 02/10/2024 | 24.8 | 33.1 | 83     | 0.0    |
| 03/10/2024 | 24.8 | 32.4 | 88     | 8888.0 |
| 04/10/2024 | 24.2 | 32.4 | 82     | 1.3    |
| 05/10/2024 | 24.2 | 33.6 | 82     | 8888.0 |
| 06/10/2024 | 24.6 | 34.6 | 77     | 7.5    |
| 07/10/2024 | 23.7 | 34.5 | 73     | 0.0    |
| 08/10/2024 | 24.4 | 35.1 | 72     | 8888.0 |
| 09/10/2024 | 25.2 | 34.8 | 73     | 0.0    |
| 10/10/2024 | 24.0 | 35.2 | 76     | 0.0    |
| 11/10/2024 | 25.5 | 34.6 | 75     | 0.0    |
| 12/10/2024 | 25.8 | 32.2 | 77     | 8888.0 |
| 13/10/2024 | 25.4 | 33.5 | 82     | 0.5    |
| 14/10/2024 | 23.9 | 34.4 | 79     | 0.2    |
| 15/10/2024 | 24.4 | 34.5 | 80     | 0.0    |
| 16/10/2024 | 23.0 | 34.5 | 80     | 59.7   |
| 17/10/2024 | 21.3 | 34.7 | 63     | 2.6    |
| 18/10/2024 | 22.6 | 35.0 | 72     | 0.0    |
| 19/10/2024 | 22.6 | 34.8 | 73     | 0.0    |
| 20/10/2024 | 23.4 | 35.1 | 66     | 0.0    |
| 21/10/2024 | 22.4 | 35.8 | 61     | 0.0    |
| 22/10/2024 | 24.3 | 36.2 | 65     | 0.0    |
| 23/10/2024 | 24.0 | 36.5 | 67     | 0.0    |
| 24/10/2024 | 26.4 | 35.9 | 69     | 0.0    |
| 25/10/2024 | 25.4 | 35.2 | 69     | 0.0    |
| 26/10/2024 | 24.0 | 36.4 | 62     | 0.0    |
| 27/10/2024 | 24.8 | 36.9 | 70     | 0.0    |
| 28/10/2024 | 24.6 | 36.9 | 75     | 0.0    |
| 29/10/2024 | 24.8 | 35.5 | 76     | 20.6   |
| 30/10/2024 | 25.2 | 35.1 | 76     | 0.0    |
| 31/10/2024 | 25.2 | 33.2 | 79     | 8888.0 |
| 31/10/2024 | 25.2 | 33.2 | 79     | 8888.0 |
| 01/11/2024 | 24.2 | 35.7 | 74     | 8888.0 |
| 02/11/2024 | 25.0 | 33.7 | 88     | 0.4    |
| 03/11/2024 | 23.8 | 30.8 | 92     | 9.3    |
| 04/11/2024 | 23.7 | 30.8 | 87     | 12.4   |
| 05/11/2024 | 25.0 | 32.4 | 87     | 1.7    |
| 06/11/2024 | 23.8 | 33.6 | 81     | 2.1    |
| 07/11/2024 | 24.4 | 33.7 | 76     | 0.0    |

| Tanggal    | Tn   | Tx   | RH avg | RR     |
|------------|------|------|--------|--------|
| 08/11/2024 | 25.3 | 34.4 | 74     | 0.0    |
| 09/11/2024 | 25.4 | 34.8 | 79     | 0.0    |
| 10/11/2024 | 24.5 | 34.6 | 81     | 0.0    |
| 11/11/2024 | 25.0 | 31.9 | 85     | 0.0    |
| 12/11/2024 | 23.8 | 33.3 | 83     | 34.7   |
| 13/11/2024 | 24.4 | 34.4 | 77     | 0.0    |
| 14/11/2024 | 25.4 | 34.3 | 79     | 6.8    |
| 15/11/2024 | 24.7 | 34.2 | 79     | 8888.0 |
| 16/11/2024 | 26.3 | 32.6 | 84     | 0.0    |
| 17/11/2024 | 25.4 | 34.8 | 79     | 8888.0 |
| 18/11/2024 | 25.4 | 33.1 | 79     | 0.0    |
| 19/11/2024 | 25.6 | 34.0 | 86     | 0.0    |
| 20/11/2024 | 24.7 | 33.9 | 87     | 36.3   |
| 21/11/2024 | 25.4 | 33.9 | 83     | 5.7    |
| 22/11/2024 | 25.7 | 32.4 | 77     | 8888.0 |
| 23/11/2024 | 26.0 | 34.4 | 79     | 0.0    |
| 24/11/2024 | 25.2 | 33.8 | 77     | 0.2    |
| 25/11/2024 | 26.2 | 34.3 | 75     | 8888.0 |
| 26/11/2024 | 25.8 | 33.4 | 86     | 8888.0 |
| 27/11/2024 | 25.4 | 31.4 | 93     | 10.3   |
| 28/11/2024 | 24.4 | 33.3 | 83     | 46.7   |
| 29/11/2024 | 24.4 | 31.6 | 27.4   | 81     |
| 30/11/2024 | 25.5 | 32.9 | 28.6   | 78     |
| 01/12/2024 | 25,6 | 31,6 | 82     | 0      |
| 02/12/2024 | 25,2 | 32,2 | 84     | 8888   |
| 03/12/2024 | 24,5 | 27,3 | 90     | 18,9   |
| 04/12/2024 | 24,4 | 28,6 | 88     | 49     |
| 05/12/2024 | 24,4 | 32,4 | 78     | 24,7   |
| 06/12/2024 | 24,7 | 31,5 | 82     | 9,6    |
| 07/12/2024 | 24,7 | 31,7 | 85     | 1,5    |
| 08/12/2024 | 25,8 | 32,4 | 85     | 2,4    |
| 09/12/2024 | 26   | 28,3 | 96     | 8,7    |
| 10/12/2024 | 23,9 | 29,4 | 83     | 61,3   |
| 11/12/2024 | 25,4 | 33,4 | 69     | 1,2    |
| 12/12/2024 | 25,1 | 33,3 | 71     | 2,5    |
| 13/12/2024 | 25,4 | 33,8 | 72     | 0      |
| 14/12/2024 | 26,6 | 32   | 79     | 0      |
| 15/12/2024 | 24,9 | 32,6 | 77     | 1,1    |
| 16/12/2024 | 26   | 28,8 | 83     | 0,8    |
| 17/12/2024 | 25,2 | 31,7 | 83     | 22,5   |
| 18/12/2024 | 25,4 | 31,6 | 85     | 8888   |
| 19/12/2024 | 23,9 | 33,2 | 84     | 11,5   |
| 20/12/2024 | 24,5 | 32,7 | 85     | 23,2   |
| 21/12/2024 | 25,4 | 31,6 | 81     | 2,4    |
| 22/12/2024 | 25,7 | 31,4 | 85     | 8888   |
| 23/12/2024 | 25,6 | 29,7 | 90     | 1,8    |
| 24/12/2024 | 24,4 | 31   | 86     | 35,3   |
| 25/12/2024 | 24,6 | 30,2 | 87     | 1,9    |

| Tanggal    | Tn   | Tx   | RH avg | RR   |
|------------|------|------|--------|------|
| 26/12/2024 | 25   | 30,6 | 86     | 3,8  |
| 27/12/2024 | 24,4 | 33,8 | 78     | 0,4  |
| 28/12/2024 | 25   | 34   | 71     | 0    |
| 29/12/2024 | 26,1 | 33,5 | 71     | 8888 |
| 30/12/2024 | 24   | 30   | 87     | 31,5 |
| 31/12/2024 | 24,1 | 33,2 | 76     | 16,8 |

|          | Jumlah RR (mm) | Rerata Tx (°C) | Rerata Tn (°C) |
|----------|----------------|----------------|----------------|
| Oktober  | 92,4           | 34,77          | 24,28          |
| November | 325,6          | 33,41          | 24,99          |
| Desember | 332,8          | 31,53          | 25,03          |

**KETERANGAN:**

8888: Data tidak terukur

9999: Tidak Ada Data (tidak dilakukan pengukuran)

Tn: Temperatur minimum (°C)

Tx: Temperatur maksimum(°C)

RH\_avg: Kelembapan rata-rata(%)

RR: Curah hujan(mm)

## Lampiran 9. Hasil Analisis Media Tanam

### SERTIFIKAT HASIL PENGUJIAN TANAH LABORATORIUM KIMIA

Laboratorium Penguji Balai Pengujian Standard Instrumen Tanaman Sayuran  
(BPSITS) Jl. Tangkuban Parahu No.517, Cikole, Kec. Lembang, Kabupaten  
Bandung Barat, Jawa Barat.

| NO. | KODE<br>LAPANG | NO.<br>LAB | Eks. 1:5         |     | Terhadap bahan kering 103°C |                                |
|-----|----------------|------------|------------------|-----|-----------------------------|--------------------------------|
|     |                |            | pH               |     | C-org<br>kurmies            | Eks. Amonium<br>Acetat 1M pH 7 |
|     |                |            | H <sub>2</sub> O | KCl |                             |                                |
|     |                |            | Elektrometri     |     | Spektro FM                  |                                |
|     |                |            |                  |     | %                           | Cmol(+)/kg                     |
| 1   | P1             | FB 70      | 7,8              | 6,9 | 4,71                        | 18,18                          |
| 2   | P2             | FB 71      | 8,6              | 7,7 | 5,12                        | 17,22                          |
| 3   | P3             | FB 72      | 8,2              | 7,3 | 8,20                        | 24,83                          |
| 4   | P4             | FB 73      | 8,3              | 7,3 | 7,27                        | 23,99                          |



**KEMENTERIAN PERTANIAN**  
**BADAN STANDARDISASI INSTRUMEN PERTANIAN**  
**PUSAT STANDARDISASI INSTRUMEN HORTIKULTURA**  
**LABORATORIUM PENGUJI BALAI PENGUJIAN STANDAR INSTRUMEN TANAMAN SAYURAN**  
Jl. Tangkuban Parahu No. 517 Lembang – Bandung Barat 40391  
Telp. (022) 2786245 Fax. (022) 278228; e-mail: Labpenguji\_balitsa@yahoo.com



Form K.05.a.

**SERTIFIKAT HASIL PENGUJIAN TANAH**  
**LABORATORIUM KIMIA**

Nomor Surat Permintaan : K.10/LP/02/2025

Nama Peminta Pengujian : Raihan Arifa Alhafizh - Universitas Sultan Ageng Tirtayasa

Alamat Peminta Pengujian : Komplek Untirta Permai Blok C5 No. 18

Jenis Sampel : Tanah

Asal Sampel : Ds. Singamerta, Kec. Ciruas, Kab. Serang, Prov. Banten

Tanggal Terima Sampel : 07 Februari 2025

Tanggal Pengujian : 07 Februari - 06 Maret 2025

| No. | KODE<br>LAPANG | NO.<br>LAB | TEKSTUR |      |      | Eks. 1:5         |     | C-org<br>Kurmies | N | CN | Terhadap bahan kering 103°C   |          |                               |                  |                               |                  |            |                  |              |            | K                           | KB |     |       |   |  |  |
|-----|----------------|------------|---------|------|------|------------------|-----|------------------|---|----|-------------------------------|----------|-------------------------------|------------------|-------------------------------|------------------|------------|------------------|--------------|------------|-----------------------------|----|-----|-------|---|--|--|
|     |                |            | Pasir   | Debu | Liat | pH               |     |                  |   |    | Bray 1                        |          | Olsen                         |                  | Morgan Venema                 |                  | HCl 25 %   |                  | KCl 1 N      |            | Eks. Amonium Acetat 1M pH 7 |    |     |       |   |  |  |
|     |                |            |         |      |      | H <sub>2</sub> O | KCl |                  |   |    | P <sub>2</sub> O <sub>5</sub> | K        | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O | Al dd      | H dd             | Ca           | Mg         | K                           | Na | Jml | TKT   |   |  |  |
|     |                |            |         |      |      | Elektrometri     |     | Spektro FM       |   |    | Spektro FM                    | Flame FM | Spektro FM                    | Flame FM         | Spektro FM                    | Flame FM         | Titrimetri | Spektrofotometri | Serapan Atom | Titrimetri | cmol(+)/kg                  |    |     |       |   |  |  |
|     |                |            | %       |      |      | %                |     | %                |   |    | ppm                           |          | mg/100g                       |                  | mg/100g                       |                  | mg/100g    |                  | mg/100g      |            | cmol(+)/kg                  |    | %   |       |   |  |  |
| 1   | P1             | FB 70      | -       | -    | -    | 7,8              | 6,9 | 4,71             | - | -  | -                             | -        | -                             | -                | -                             | -                | -          | -                | -            | -          | -                           | -  | -   | 18,18 | - |  |  |
| 2   | P2             | FB 71      | -       | -    | -    | 8,6              | 7,7 | 5,12             | - | -  | -                             | -        | -                             | -                | -                             | -                | -          | -                | -            | -          | -                           | -  | -   | 17,22 | - |  |  |
| 3   | P3             | FB 72      | -       | -    | -    | 8,2              | 7,3 | 8,10             | - | -  | -                             | -        | -                             | -                | -                             | -                | -          | -                | -            | -          | -                           | -  | -   | 24,83 | - |  |  |
| 4   | P4             | FB 73      | -       | -    | -    | 8,3              | 7,3 | 7,27             | - | -  | -                             | -        | -                             | -                | -                             | -                | -          | -                | -            | -          | -                           | -  | -   | 23,99 | - |  |  |

Keterangan : FM = Fotometri

Lembang, 10 Maret 2025

Koordinator Laboratorium



**LABORATORIUM PENGUJI**

**TANAMAN SAYURAN**

To Harfan, S.T.

NIP. 199303122022031002

Sertifikat ini hanya berlaku untuk sampel yang diuji dan tidak dapat diperbanyak tanpa izin dari Balai Pengujian Standar Instrumen Tanaman Sayuran  
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### Lampiran 10. Kriteria Penilaian Analisis Sifat Kimia Tanah

| Parameter Tanah          | Nilai         |        |         |         |               |
|--------------------------|---------------|--------|---------|---------|---------------|
|                          | Sangat rendah | Rendah | Sedang  | Tinggi  | Sangat tinggi |
| C (%)                    | <1            | 1 – 2  | 2 – 3   | 3 – 5   | >5            |
| KTK/CEC (me/100 g tanah) | <5            | 5 – 16 | 17 – 24 | 25 – 40 | >40           |

|                     | Sangat masam | Masam     | Agak masam | Netral    | Agak alkalis | Alkalis |
|---------------------|--------------|-----------|------------|-----------|--------------|---------|
| pH H <sub>2</sub> O | < 4,5        | 4,5 – 5,5 | 5,5 – 6,5  | 6,6 – 7,5 | 7,6 – 8,5    | >8,5    |

Sumber: Balai Penelitian Tanah (2005).

### Lampiran 11. Contoh Perhitungan Sidik Ragam

Tinggi tanaman 4 MST

| Perlakuan          | Ulangan         |       |        | Total  | Rata-rata |
|--------------------|-----------------|-------|--------|--------|-----------|
|                    | 1               | 2     | 3      |        |           |
| M0P1               | 25,5            | 26,6  | 24,05  | 76,15  | 25,38     |
| M0P2               | 22              | 18,85 | 20,25  | 61,1   | 20,37     |
| M0P3               | 39,35           | 37,15 | 39,4   | 115,9  | 38,63     |
| M0P4               | 21,55           | 18,1  | 22,25  | 61,9   | 20,63     |
| M1P1               | 30              | 31,35 | 26,15  | 87,5   | 29,17     |
| M1P2               | 20,1            | 22,9  | 25,55  | 68,55  | 22,85     |
| M1P3               | 35,25           | 36,25 | 38,1   | 109,6  | 36,53     |
| M1P4               | 25,75           | 25,7  | 23,05  | 74,5   | 24,83     |
| M2P1               | 25,75           | 26    | 28,5   | 80,25  | 26,75     |
| M2P2               | 21,9            | 32,1  | 19,5   | 73,5   | 24,50     |
| M2P3               | 39,5            | 36,15 | 44,35  | 120    | 40,00     |
| M2P4               | 24,5            | 27,85 | 24     | 76,35  | 25,45     |
| M3P1               | 28,75           | 25,25 | 24,65  | 78,65  | 26,22     |
| M3P2               | 21              | 22,15 | 29,4   | 72,55  | 24,18     |
| M3P3               | 38,4            | 40,5  | 41,25  | 120,15 | 40,05     |
| M3P4               | 33,75           | 25    | 21,3   | 80,05  | 26,68     |
| Total              | 453,05          | 451,9 | 451,75 |        |           |
| <b>Grand Total</b> | <b>1356,7</b>   |       |        |        |           |
| <b>Rataan umum</b> | <b>452,2333</b> |       |        |        |           |

| Tabel Kombinasi Perlakuan |               |              |               |              |               |
|---------------------------|---------------|--------------|---------------|--------------|---------------|
| Faktor M                  | Faktor P      |              |               |              | Total         |
|                           | P1            | P2           | P3            | P4           |               |
| M0                        | 76,15         | 61,1         | 115,9         | 61,9         | 315,05        |
| M1                        | 87,5          | 68,55        | 109,6         | 74,5         | 340,15        |
| M2                        | 80,25         | 73,5         | 120           | 76,35        | 350,1         |
| M3                        | 78,65         | 72,55        | 120,15        | 80,05        | 351,4         |
| <b>Total</b>              | <b>322,55</b> | <b>275,7</b> | <b>465,65</b> | <b>292,8</b> | <b>1356,7</b> |
| <b>Rata-rata</b>          | <b>26,88</b>  | <b>22,98</b> | <b>38,80</b>  | <b>24,40</b> |               |

**Menghitung derajat bebas (db) :**

- a. db kelompok =  $r-1 = 3-1 = 2$
- b. db perlakuan =  $t-1 = 16-1 = 15$
- c. db M =  $tA-1 = 4-1 = 3$
- d. db P =  $tB-1 = 4-1 = 3$
- e. db interaksi =  $(tA-1) \times (tB-1) = (4-1) \times (4-1) = 9$
- f. db galat =  $(r-1) \times (t-1) = (16-1) \times (3-1) = 30$
- g. db total =  $n-1 = (r \times t)-1 = (3 \times 16) - 1 = 47$

**Menghitung Faktor Koreksi (FK)**

$$\begin{aligned}
 FK &= \frac{(\sum Y_{IJK})^2}{t.r} \\
 &= \frac{(1478.1)^2}{16.3} \\
 &= 38346,56
 \end{aligned}$$

**Menghitung Jumlah Kuadrat (JK)**

- JK Perlakuan
 
$$\begin{aligned}
 &= \frac{\sum Y_{.i}^2}{r} - FK \\
 &= \frac{(76,15^2 + 61,10^2 + 115,90^2 + \dots + 80,05^2)}{3} - 38346,56 \\
 &= \frac{121079,2}{3} - 38346,56 \\
 &= 40359,73 - 38346,56 \\
 &= 2013,17
 \end{aligned}$$
- JK Kelompok
 
$$\begin{aligned}
 &= \frac{\sum Y_{.j}^2}{t} - FK \\
 &= \frac{(453,05^2 + 451,9^2 + 451,75^2)}{16} - 38346,56 \\
 &= \frac{613546}{16} - 38346,56 \\
 &= 38346,62 - 38346,56 \\
 &= 0,06
 \end{aligned}$$
- JK (M)
 
$$\begin{aligned}
 &= \frac{\sum Pi^2}{r.tp} - FK \\
 &= \frac{(315,05^2 + 340,15^2 + 350,1 + 351,4^2)}{3.4} - 38346,56
 \end{aligned}$$



$$\begin{aligned}
&= \frac{461010,5}{12} - 38346,56 \\
&= 38417,54 - 38346,56 \\
&= 70,98
\end{aligned}$$

- JK (P)
 
$$\begin{aligned}
&= \frac{\sum Pj^2}{r.tp} - FK \\
&= \frac{(322,55^2 + 275,7^2 + 465,65^2 + 292,8^2)}{3.4} - 38346,56 \\
&= \frac{482610,8}{12} - 38346,56 \\
&= 40217,56 - 38346,56 \\
&= 1871
\end{aligned}$$
- JK Interaksi (M\*P)
 
$$\begin{aligned}
&= JK \text{ Perlakuan} - JK (S) - JK (P) \\
&= 2013,17 - 70,98 - 1871 \\
&= 71,19
\end{aligned}$$
- JK Galat
 
$$\begin{aligned}
&= JK \text{ Total} - JK \text{ Perlakuan} - JK \text{ Kelompok} \\
&= 2347,28 - 2013,17 - 0,06 \\
&= 334,05
\end{aligned}$$
- JK Total
 
$$\begin{aligned}
&= \sum ij^2 - FK \\
&= 40693,84 - 38346,56 \\
&= 2347,28
\end{aligned}$$

### Menghitung Kuadrat Tengah (KT)

- KT Kelompok
 
$$= \frac{JK \text{ Kelompok}}{db \text{ Kelompok}} = \frac{0,06}{2} = 0,03$$
- KT Perlakuan
 
$$= \frac{JK \text{ Perlakuan}}{db \text{ Perlakuan}} = \frac{2013,07}{15} = 134,211$$
- KT (M)
 
$$= \frac{JK (M)}{db (M)} = \frac{70,98}{3} = 23,66$$
- KT (P)
 
$$= \frac{JK (P)}{db (P)} = \frac{1871}{3} = 623,66$$
- KT Interaksi (M\*P)
 
$$= \frac{JK \text{ interaksi}}{db \text{ interaksi}} = \frac{71,189}{9} = 7,98$$
- KT Galat
 
$$= \frac{JK \text{ Galat}}{db \text{ Galat}} = \frac{334,047}{30} = 11,1349$$

### Menghitung F Hitung

- F Hitung Kelompok  $= \frac{KT \text{ Kelompok}}{KT \text{ Galat}} = \frac{0,03}{11,1349} = 0,003$
- F Hitung Perlakuan  $= \frac{KT \text{ Perlakuan}}{KT \text{ Galat}} = \frac{134,2115}{11,1349} = 12,053$
- F Hitung (M)  $= \frac{KT (M)}{KT \text{ Galat}} = \frac{23,6603}{11,1349} = 2,125$
- F Hitung (P)  $= \frac{KT (P)}{KT \text{ Galat}} = \frac{623,6676}{11,1349} = 56,010$
- F Hitung Interaksi (M\*P)  $= \frac{KT \text{ M*P}}{KT \text{ Galat}} = \frac{7,9099}{11,1349} = 0,710$

### Menghitung Rataan Umum dan Koefisien Keragaman

#### 1. Rataan Umum

$$RU = \frac{\sum X}{N} = \frac{1356,7}{48} = 28,264$$

#### 2. Koefisien Keragaman

$$\begin{aligned}
 KK &= \frac{\sqrt{KT \text{ Galat}}}{Rataan \text{ Umum}} \times 100\% \\
 &= \frac{\sqrt{11,349}}{28,264} \times 100\% \\
 &= 11,80 \%
 \end{aligned}$$

## Lampiran 12. Tabel Analisis Sidik Ragam Variabel Pengamatan

### 1. Tinggi tanaman (cm)

Tabel sidik ragam tinggi tanaman 1 MST

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 2,50   | 1,25  | 0,35               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 125,67 | 8,38  | 2,36               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 15,20  | 5,07  | 1,42 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 87,35  | 29,12 | 8,19**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 23,12  | 2,57  | 0,72 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 106,70 | 3,56  |                    |         |        |
| <b>Total</b>     | 47 | 234,87 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 46,39% |

Data transformasi  $\sqrt{x} + 0,5$

| SK               | DB | JK    | KT   | F<br>Hitung        | F tabel |        |
|------------------|----|-------|------|--------------------|---------|--------|
|                  |    |       |      |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 0,09  | 0,04 | 0,17               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 9,27  | 0,62 | 2,40               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 1,22  | 0,41 | 1,58 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 6,41  | 2,14 | 8,30**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 1,63  | 0,18 | 0,70 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 7,72  | 0,26 |                    |         |        |
| <b>Total</b>     | 47 | 17,08 |      |                    |         |        |
| <b>KK</b>        |    |       |      |                    |         | 21,28% |

Tabel sidik ragam tinggi tanaman 2 MST

| SK               | DB | JK     | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|--------|--------|--------------------|---------|--------|
|                  |    |        |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 5,01   | 2,50   | 0,41               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 642,61 | 42,84  | 7,10               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 86,07  | 28,69  | 4,75**             | 2,92    | 4,51   |
| <b>P</b>         | 3  | 500,02 | 166,67 | 27,62**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 56,51  | 6,28   | 1,04 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 181,04 | 6,03   |                    |         |        |
| <b>Total</b>     | 47 | 828,65 |        |                    |         |        |
| <b>KK</b>        |    |        |        |                    |         | 13,32% |

Tabel sidik ragam tinggi tanaman 3 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 8,59    | 4,29   | 0,52               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 1387,32 | 92,49  | 11,25              | 2,01    | 2,70   |
| <b>M</b>         | 3  | 113,28  | 37,76  | 4,59**             | 2,92    | 4,51   |
| <b>P</b>         | 3  | 1176,17 | 392,06 | 47,69**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 97,87   | 10,87  | 1,32 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 246,63  | 8,22   |                    |         |        |
| <b>Total</b>     | 47 | 1642,53 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 11,69% |

Tabel sidik ragam tinggi tanaman 4 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 0,06    | 0,032  | 0,003              | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 2013,17 | 134,21 | 12,05              | 2,01    | 2,70   |
| <b>M</b>         | 3  | 70,98   | 23,66  | 2,12 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 1871,00 | 623,67 | 56,01**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 71,19   | 7,91   | 0,71 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 334,04  | 11,13  |                    |         |        |
| <b>Total</b>     | 47 | 2347,28 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 11,81% |

Tabel sidik ragam tinggi tanaman 5 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 20,83   | 10,42  | 0,81               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 2595,49 | 173,03 | 13,43              | 2,01    | 2,70   |
| <b>M</b>         | 3  | 30,67   | 10,22  | 0,79 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 2419,24 | 806,41 | 62,59**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 145,59  | 16,18  | 1,26 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 386,55  | 12,88  |                    |         |        |
| <b>Total</b>     | 47 | 3002,87 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 11,66% |

Tabel sidik ragam tinggi tanaman 6 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 1,80    | 0,90   | 0,04               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 937,59  | 62,51  | 2,63               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 36,77   | 12,26  | 0,52 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 702,62  | 234,21 | 9,86**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 198,20  | 22,02  | 0,93 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 712,63  | 23,75  |                    |         |        |
| <b>Total</b>     | 47 | 1652,02 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 13,40% |

## 2. Jumlah Daun (helai)

Tabel sidik ragam jumlah daun 1 MST

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 2,84   | 1,42  | 0,67               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 79,24  | 5,28  | 2,50               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 11,10  | 3,70  | 1,75 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 55,22  | 18,41 | 8,70**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 12,92  | 1,44  | 0,68 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 63,49  | 2,12  |                    |         |        |
| <b>Total</b>     | 47 | 145,58 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 31,24% |

Data transformasi  $\sqrt{x + 0,5}$ 

| SK               | DB | JK    | KT   | F<br>Hitung        | F tabel |        |
|------------------|----|-------|------|--------------------|---------|--------|
|                  |    |       |      |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 0,05  | 0,03 | 0,16               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 6,38  | 0,43 | 2,53               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 0,92  | 0,31 | 1,83 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 4,38  | 1,46 | 8,68**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 1,08  | 0,12 | 0,71 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 5,05  | 0,17 |                    |         |        |
| <b>Total</b>     | 47 | 11,48 |      |                    |         |        |
| <b>KK</b>        |    |       |      |                    |         | 16,01% |

Tabel sidik ragam jumlah daun 2 MST

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 2,34   | 1,17  | 0,29               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 154,95 | 10,33 | 2,59               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 33,93  | 11,31 | 2,94*              | 2,92    | 4,51   |
| <b>P</b>         | 3  | 75,18  | 25,06 | 6,28**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 45,84  | 5,09  | 1,28 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 119,66 | 3,99  |                    |         |        |
| <b>Total</b>     | 47 | 276,95 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 16,95% |

Tabel sidik ragam jumlah daun 3 MST

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 45,32  | 22,66 | 3,06               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 303,81 | 20,25 | 2,74               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 63,06  | 21,02 | 2,95*              | 2,92    | 4,51   |
| <b>P</b>         | 3  | 203,35 | 67,78 | 9,17**             | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 37,40  | 4,16  | 0,56 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 221,84 | 7,39  |                    |         |        |
| <b>Total</b>     | 47 | 570,98 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 18,87% |

Tabel sidik ragam jumlah daun 4 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 55,97   | 27,98  | 2,90               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 775,33  | 51,69  | 5,35               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 34,04   | 11,35  | 1,18 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 674,54  | 224,85 | 23,28**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 66,75   | 7,42   | 0,77 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 289,70  | 9,66   |                    |         |        |
| <b>Total</b>     | 47 | 1121,00 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 18,55% |

Tabel sidik ragam jumlah daun 5 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 66,79   | 33,40  | 1,96               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 1625,48 | 108,37 | 6,35               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 106,77  | 35,59  | 2,94*              | 2,92    | 4,51   |
| <b>P</b>         | 3  | 1441,77 | 480,59 | 28,18**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 76,94   | 8,55   | 0,50 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 511,71  | 17,06  |                    |         |        |
| <b>Total</b>     | 47 | 2203,98 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 17,28% |

Tabel sidik ragam jumlah daun 6 MST

| SK               | DB | JK      | KT     | F<br>Hitung        | F tabel |        |
|------------------|----|---------|--------|--------------------|---------|--------|
|                  |    |         |        |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 95,20   | 47,60  | 3,12               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 1802,25 | 120,15 | 7,89               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 45,29   | 15,10  | 0,99 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 1634,42 | 544,81 | 35,77**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 122,54  | 13,62  | 0,89 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 456,97  | 15,23  |                    |         |        |
| <b>Total</b>     | 47 | 2354,42 |        |                    |         |        |
| <b>KK</b>        |    |         |        |                    |         | 17,00% |

## 3. Sidik ragam pertambahan panjang akar

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 6,18   | 3,09  | 0,40               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 154,70 | 10,31 | 1,34               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 34,85  | 11,62 | 1,51 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 61,27  | 20,42 | 2,65 <sup>tn</sup> | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 58,58  | 6,51  | 0,84 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 231,54 | 7,72  |                    |         |        |
| <b>Total</b>     | 47 | 392,41 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 22,61% |

## 4. Sidik ragam pertambahan jumlah anakan

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 5,78   | 2,89  | 0,63               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 120,65 | 8,04  | 1,75               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 8,23   | 2,74  | 0,59 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 91,35  | 30,45 | 6,64 <sup>tn</sup> | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 21,06  | 2,34  | 0,51 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 137,54 | 4,58  |                    |         |        |
| <b>Total</b>     | 47 | 263,98 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 23,74% |

## 5. Sidik ragam pertambahan bobot basah umbi

| SK               | DB | JK       | KT      | F<br>Hitung        | F tabel |        |
|------------------|----|----------|---------|--------------------|---------|--------|
|                  |    |          |         |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 92,89    | 46,44   | 0,46               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 14680,15 | 978,68  | 9,77               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 55,06    | 18,35   | 0,18 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 14026,19 | 4675,40 | 46,68**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 598,90   | 66,54   | 0,66 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 3004,45  | 100,15  |                    |         |        |
| <b>Total</b>     | 47 | 17777,48 |         |                    |         |        |
| <b>KK</b>        |    |          |         |                    |         | 31,38% |

Data transformasi  $\sqrt{x} + 0,5$ 

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |        |
|------------------|----|--------|-------|--------------------|---------|--------|
|                  |    |        |       |                    | 0,05    | 0,01   |
| <b>Kelompok</b>  | 2  | 0,82   | 0,41  | 0,44               | 3,32    | 5,39   |
| <b>Perlakuan</b> | 15 | 103,19 | 6,88  | 7,37               | 2,01    | 2,70   |
| <b>M</b>         | 3  | 0,41   | 0,14  | 0,15 <sup>tn</sup> | 2,92    | 4,51   |
| <b>P</b>         | 3  | 98,13  | 32,71 | 35,02**            | 2,92    | 4,51   |
| <b>MP</b>        | 9  | 4,65   | 0,52  | 0,55 <sup>tn</sup> | 2,21    | 3,07   |
| <b>Galat</b>     | 30 | 28,02  | 0,93  |                    |         |        |
| <b>Total</b>     | 47 | 132,03 |       |                    |         |        |
| <b>KK</b>        |    |        |       |                    |         | 16,43% |



## 6. Sidik ragam pertambahan tinggi tanaman

| SK               | DB | JK       | KT      | F<br>Hitung        | F tabel |      |
|------------------|----|----------|---------|--------------------|---------|------|
|                  |    |          |         |                    | 0,05    | 0,01 |
| <b>Kelompok</b>  | 2  | 59,26    | 29,63   | 0,35               | 3,32    | 5,39 |
| <b>Perlakuan</b> | 15 | 12758,50 | 850,57  | 10,19              | 2,01    | 2,70 |
| <b>M</b>         | 3  | 51,88    | 17,29   | 0,21 <sup>tn</sup> | 2,92    | 4,51 |
| <b>P</b>         | 3  | 12281,04 | 4093,68 | 49,03**            | 2,92    | 4,51 |
| <b>MP</b>        | 9  | 425,58   | 47,29   | 0,57 <sup>tn</sup> | 2,21    | 3,07 |
| <b>Galat</b>     | 30 | 2504,91  | 83,50   |                    |         |      |
| <b>Total</b>     | 47 | 15322,67 |         |                    |         |      |
| <b>KK</b>        |    |          |         |                    | 33,13%  |      |

Data transformasi  $\sqrt{x + 0,5}$ 

| SK               | DB | JK     | KT    | F<br>Hitung        | F tabel |      |
|------------------|----|--------|-------|--------------------|---------|------|
|                  |    |        |       |                    | 0,05    | 0,01 |
| <b>Kelompok</b>  | 2  | 0,15   | 0,07  | 0,08               | 3,32    | 5,39 |
| <b>Perlakuan</b> | 15 | 106,33 | 7,09  | 8,19               | 2,01    | 2,70 |
| <b>M</b>         | 3  | 0,26   | 0,09  | 0,10 <sup>tn</sup> | 2,92    | 4,51 |
| <b>P</b>         | 3  | 100,76 | 33,59 | 38,83**            | 2,92    | 4,51 |
| <b>MP</b>        | 9  | 5,31   | 0,59  | 0,68 <sup>tn</sup> | 2,21    | 3,07 |
| <b>Galat</b>     | 30 | 25,95  | 0,86  |                    |         |      |
| <b>Total</b>     | 47 | 132,42 |       |                    |         |      |
| <b>KK</b>        |    |        |       |                    | 17,10%  |      |

## Lampiran 13. Dokumentasi Pelaksanaan Penelitian

### 1. Alat dan Bahan Penelitian



Timbangan Digital



Jangka Sorong



Penggaris



Meteran



*Sprayer*



Gunting



*Cocopeat*



Arang Sekam



Kohe Sapi



Bawang merah ver.  
Bima brebes



Pupuk Mikoriza



Pupuk NPK 16-16-16



Fungisida



Insektisida

## 2. Pengamatan Vegetatif Tanaman



M0P1



M0P2



M0P3



M0P4



M1P1



M1P2



M1P3



M1P4



M2P1



M2P2



M2P3



M2P4



M3P1



M3P2



M3P3



M3P4



### 3. Pengamatan Komponen Pemanenan









#### 4. Kegiatan Penelitian



Persiapan media tanam



Penyortiran umbi



Pengukuran umbi



Penimbangan pupuk  
mikoriza



Pengaplikasian pupuk  
mikoriza



Penanaman



Pengamatan



Penyiraman



Pengaplikasian fungisida



Pengaplikasian  
insektisida



Pemupukan susulan



Pemanenan