BAB V
KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Pemberian pasir pantai nyata terhadap kadar K_2O, N-Total dan KTK dalam tanah. Sedangkan pemberian sabut batang pisang dan sabut kelapa tidak berpengaruh nyata terhadap kadar K_2O, N-Total dan KTK
2. Perlakuan terbaik terhadap kadar K_2O dalam tanah diperoleh melalui pemberian pasir pantai 25%, sabut kelapa dan sabut batang pisang pada dosis 10 ton ha^{-1} namun secara statistik tidak menunjukkan adanya beda nyata terhadap kontrol, hal yang sama juga terjadi pada N-Total dan KTK dimana taraf perlakuan pasir 25% berbeda nyata dengan taraf pasir 0%, Sehingga dapat dikatakan bahwa perlakuan terbaik tunggal yaitu pasir 25% karena pada taraf ini baik kadar K_2O, N-Total dan KTK tergolong baik sehingga mampu menopang pertumbuhan tanaman padi dengan baik.

5.2 Saran

Pemberian pasir pantai 25% sudah mampu merubah sifat fisik tanah vertisol akan tetapi formulasi pemberian sabut batang pisang dan sabut kelapa belum mampu mengimbangi dampak negative pemberian pasir pantai sehingga perlu dilakukan uji lanjut terhadap formulasi pemberian sabut batang pisang dan sabut kelapa baik dari dosis pemberian (dengan memperbaiki dosis pemberian mulai dari 10, 12.5, 15, 17.5, 20 ton ha^{-1}) maupun ukuran standar minimal bentuk sabut, apakah dalam bentuk serbuk atau sabut kasar. Karena pada penelitian ini peneliti tidak melakukan penyeragaman ukuran standar kehalusan sabut batang pisang. Selain itu proses pencampuran yang tidak terpola juga memungkinkan sabut batang pisang dan sabut kelapa tidak menyatu dengan tekstur tanah. Masa inkubasi yang terlalu pendek juga bisa mempengaruhi pengaruh keduanya terhadap parameter yang di uji sehingga jika di perlukan, bisa dilakukan evaluasi setelah 6-8 bulan bahkan satu tahun lamanya masa inkubasi untuk mengetahui pengaruh lama inkubasi pemberian amelioran terhadap ketersedian K.

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LAMPIRAN

1. Analisis Sidik Ragam Fraksi Pasir

The SAS System 00:06 Friday, April 13, 2009 11

The ANOVA Procedure
Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read 54
Number of Observations Used 54

The SAS System 00:06 Friday, April 13, 2009 12

The ANOVA Procedure

Dependent Variable: pasir Sum of

Source	DF	Squares	Mean Square	F Value	Pr > F
Model	26	7732.659259	297.409972	3.73	0.0006
Error	27	2152.215000	79.711667		
Corrected Total	53	9884.874259			

R-Square	Coeff Var	Root MSE	pasir Mean
0.782272	28.75750	8.928139	31.04630

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	5806.259259	2903.129630	36.42	<.0001
c	2	280.481481	140.240741	1.76	0.1913
p*c	4	127.388519	31.847130	0.40	0.8072
b	2	316.058148	158.029074	1.98	0.1573
c*b	4	346.416296	86.604074	1.09	0.3829
p*b	4	401.125185	100.281296	1.26	0.3106
p*c*b	8	454.930370	56.866296	0.71	0.6777

The SAS System 00:06 Friday, April 13, 2009 13

The ANOVA Procedure

Duncan's Multiple Range Test for pasir

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	79.71167

Number of Means	2	3
Critical Range	6.106	6.416

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	p
A	42.028	18	P2
B	33.972	18	P1
C	17.139	18	P0

The SAS System 00:06 Friday, April 13, 2009 14

The ANOVA Procedure

Duncan's Multiple Range Test for pasir

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	79.71167

Number of Means	2	3
Critical Range	6.106	6.416

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	34.250	18	C2
	A		
A	29.750	18	C0
	A		
A	29.139	18	C1

The SAS System 00:06 Friday, April 13, 2009 15

The ANOVA Procedure

Duncan's Multiple Range Test for pasir

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	79.71167

Number of Means	2	3
Critical Range	6.106	6.416

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	33.650	18	B2
	A		
A	31.667	18	B1
	A		
A	27.822	18	B0

2. Analisis Sidik Ragam Fraksi Liat

The SAS System 00:06 Friday, April 13, 2009 16

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read 54
Number of Observations Used 54

The SAS System 00:06 Friday, April 13, 2009 17

The ANOVA Procedure

Dependent Variable: liat

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	1561.362593	60.052407	1.71	0.0858
Error	27	947.085000	35.077222		
Corrected Total	53	2508.447593			

R-Square	Coeff Var	Root MSE	liat Mean
0.622442	20.13096	5.922603	29.42037

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	714.5159259	357.2579630	10.18	0.0005
c	2	157.0770370	78.5385185	2.24	0.1260
p*c	4	172.1762963	43.0440741	1.23	0.3227
b	2	101.2459259	50.6229630	1.44	0.2538
c*b	4	116.0462963	29.0115741	0.83	0.5196
p*b	4	101.0107407	25.2526852	0.72	0.5858
p*c*b	8	199.2903704	24.9112963	0.71	0.6803

The SAS System 00:06 Friday, April 13, 2009 18

The ANOVA Procedure

Duncan's Multiple Range Test for liat

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	35.07722

Number of Means	2	3
Critical Range	4.051	4.256

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	p
A	34.244	18	P0
B	28.556	18	P1
	B		
B	25.461	18	P2

The SAS System 00:06 Friday, April 13, 2009 19

The ANOVA Procedure

Duncan's Multiple Range Test for liat

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	35.07722

Number of Means	2	3
Critical Range	4.051	4.256

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c

A	31.239	18	C1
	A		
A	29.883	18	C0
	A		
A	27.139	18	C2

The SAS System 00:06 Friday, April 13, 2009 20

The ANOVA Procedure

Duncan's Multiple Range Test for liat

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	35.07722

Number of Means	2	3
Critical Range	4.051	4.256

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	31.306	18	B0
	A		
A	28.861	18	B2
	A		
A	28.094	18	B1

3. Analisis Sidik Ragam Fraksi Debu

The SAS System 00:06 Friday, April 13, 2009 21

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2

c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read	54
Number of Observations Used	54

The SAS System 00:06 Friday, April 13, 2009 22

The ANOVA Procedure

Dependent Variable: debu

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	2591.634815	99.678262	4.44	0.0001
Error	27	605.920000	22.441481		
Corrected Total	53	3197.554815			

R-Square	Coeff Var	Root MSE	debu Mean
0.810505	12.13065	4.737244	39.05185

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	2001.904815	1000.952407	44.60	<.0001
c	2	111.210370	55.605185	2.48	0.1028
p*c	4	47.952963	11.988241	0.53	0.7117
b	2	96.144815	48.072407	2.14	0.1369
c*b	4	48.596296	12.149074	0.54	0.7067
p*b	4	146.048519	36.512130	1.63	0.1963
p*c*b	8	139.777037	17.472130	0.78	0.6249

The SAS System 00:06 Friday, April 13, 2009 23

The ANOVA Procedure

Duncan's Multiple Range Test for debu

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error
rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	22.44148

Number of Means	2	3
Critical Range	3.240	3.404

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	p
A	47.172	18	P0
B	37.472	18	P1
C	32.511	18	P2

The SAS System 00:06 Friday, April 13, 2009 24

The ANOVA Procedure

Duncan's Multiple Range Test for debu

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	22.44148

Number of Means	2	3
Critical Range	3.240	3.404

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	40.367	18	C0
	A		
A	39.733	18	C1
	A		
A	37.056	18	C2

The SAS System 00:06 Friday, April 13, 2009 25

The ANOVA Procedure

Duncan's Multiple Range Test for debu

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	22.44148

Number of Means	2	3
Critical Range	3.240	3.404

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	40.872	18	B0
A	38.572	18	B1
A	37.711	18	B2

1. **Analisis Sidik Ragam H_2O**

The SAS System 18:53 Thursday, October 10, 2013 1

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read	54
Number of Observations Used	54

The SAS System 18:53 Thursday, October 10, 2013 2

The ANOVA Procedure

Dependent Variable: h2o

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	468.5100037	18.0196155	3.50	0.0009
Error	27	139.0717000	5.1508037		
Corrected Total	53	607.5817037			

R-Square	Coeff Var	Root MSE	h2o Mean
0.771106	13.03140	2.269538	17.41593

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	286.3369370	143.1684685	27.80	<.0001
c	2	19.1615593	9.5807796	1.86	0.1751
p*c	4	21.0283074	5.2570769	1.02	0.4144
b	2	9.0340037	4.5170019	0.88	0.4276
c*b	4	25.5457741	6.3864435	1.24	0.3177
p*b	4	55.8094630	13.9523657	2.71	0.0512
p*c*b	8	51.5939593	6.4492449	1.25	0.3085

The SAS System 18:53 Thursday, October 10, 2013 3

The ANOVA Procedure

Duncan's Multiple Range Test for h2o

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	p
A	20.5178	18	P0
B	16.7239	18	P1
C	15.0061	18	P2

The SAS System 18:53 Thursday, October 10, 2013 4

The ANOVA Procedure

Duncan's Multiple Range Test for h2o

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	18.2494	18	C1
A	17.1050	18	C0
A	16.8933	18	C2

The SAS System 18:53 Thursday, October 10, 2013 5

The ANOVA Procedure

Duncan's Multiple Range Test for h2o

NOTE: This test controls the Type I comparisonwise error rate, not the

experimentwise error
rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	17.9311	18	B0
A	17.3861	18	B1
A	16.9306	18	B2

2. Analisis Sidik Ragam Kadar K_2O

The SAS System 20:20 Thursday, September 19, 2013 21

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read	54
Number of Observations Used	54

The SAS System 20:20 Thursday, September 19, 2013 22

The ANOVA Procedure

Dependent Variable: jumlah_k

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	13786.14815	530.23647	1.06	0.4430

Error	27	13546.00000	501.70370
Corrected Total	53	27332.14815	

R-Square	Coeff Var	Root MSE	jumlah_k Mean
0.504393	20.96970	22.39874	106.8148

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	2902.925926	1451.462963	2.89	0.0727
c	2	1108.925926	554.462963	1.11	0.3457
p*c	4	2812.962963	703.240741	1.40	0.2601
b	2	803.703704	401.851852	0.80	0.4593
c*b	4	831.851852	207.962963	0.41	0.7966
p*b	4	4235.851852	1058.962963	2.11	0.1071
p*c*b	8	1089.925926	136.240741	0.27	0.9699

The SAS System 20:20 Thursday, September 19, 2013 23

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_k

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error
rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	501.7037

Number of Means	2	3
Critical Range	15.32	16.10

Means with the same letter are not significantly different.

Duncan Grouping			Mean	N	p
	A		112.889	18	P1
		A			
B	A		111.056	18	P0
		B			

B	96.500	18	P2

The SAS System 20:20 Thursday, September 19, 2013 24

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_k

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	501.7037

Number of Means	2	3
Critical Range	15.32	16.10

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	112.056	18	C1
A	107.389	18	C2
A	101.000	18	C0

The SAS System 20:20 Thursday, September 19, 2013 25

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_k

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	501.7037

Number of Means	2	3
Critical Range	15.32	16.10

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	110.333	18	B1
A	108.667	18	B2
A	101.444	18	B0

3. Analisis Sidik Ragam N-Total

The SAS System 12:19 Thursday, September 18, 2013 6

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read	54
Number of Observations Used	54

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The ANOVA Procedure

Dependent Variable: jumlah_n

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	0.03490000	0.00134231	1.99	0.0411
Error	27	0.01825000	0.00067593		
Corrected Total	53	0.05315000			

R-Square	Coeff Var	Root MSE	jumlah_n Mean
0.656632	17.93005	0.025999	0.145000

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	0.01421111	0.00710556	10.51	0.0004
c	2	0.00194444	0.00097222	1.44	0.2549
p*c	4	0.00124444	0.00031111	0.46	0.7642
b	2	0.00274444	0.00137222	2.03	0.1509
c*b	4	0.00251111	0.00062778	0.93	0.4619
p*b	4	0.00691111	0.00172778	2.56	0.0617
p*c*b	8	0.00533333	0.00066667	0.99	0.4680

The SAS System 12:19 Thursday, September 18, 2013 8

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_n

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error
rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	0.000676

Number of Means	2	3
Critical Range	.01778	.01868

Means with the same letter are not significantly different.

Duncan Grouping		Mean	N	p
A		0.166111	18	P0
B		0.142222	18	P1
	B			
B		0.126667	18	P2

The SAS System 12:19 Thursday, September 18, 2013 9

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_n

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error

rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	0.000676

Number of Means	2	3
Critical Range	.01778	.01868

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	0.150556	18	C2
A	0.147778	18	C1
A	0.136667	18	C0

The SAS System 12:19 Thursday, September 18, 2013 10

The ANOVA Procedure

Duncan's Multiple Range Test for jumlah_n

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error
rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	0.000676

Number of Means	2	3
Critical Range	.01778	.01868

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	0.151111	18	B2
A	0.148889	18	B1
A	0.135000	18	B0

4. Analisis Sidik Ragam KTK

The SAS System 12:19 Thursday, September 18, 2013 16

The ANOVA Procedure

Class Level Information

Class	Levels	Values
p	3	P0 P1 P2
c	3	C0 C1 C2
b	3	B0 B1 B2

Number of Observations Read 54
Number of Observations Used 54

The SAS System 12:19 Thursday, September 18, 2013 17

The ANOVA Procedure

Dependent Variable: ktk

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	468.5100037	18.0196155	3.50	0.0009
Error	27	139.0717000	5.1508037		
Corrected Total	53	607.5817037			

R-Square	Coeff Var	Root MSE	ktk Mean
0.771106	13.03140	2.269538	17.41593

Source	DF	Anova SS	Mean Square	F Value	Pr > F
p	2	286.3369370	143.1684685	27.80	<.0001
c	2	19.1615593	9.5807796	1.86	0.1751
p*c	4	21.0283074	5.2570769	1.02	0.4144
b	2	9.0340037	4.5170019	0.88	0.4276
c*b	4	25.5457741	6.3864435	1.24	0.3177
p*b	4	55.8094630	13.9523657	2.71	0.0512

p*c*b	8	51.5939593	6.4492449	1.25	0.3085

The SAS System 12:19 Thursday, September 18, 2013 18

The ANOVA Procedure

Duncan's Multiple Range Test for ktk

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	p
A	20.5178	18	P0
B	16.7239	18	P1
C	15.0061	18	P2

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The ANOVA Procedure

Duncan's Multiple Range Test for ktk

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	c
A	18.2494	18	C1
A	17.1050	18	C0
A	16.8933	18	C2

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The ANOVA Procedure

Duncan's Multiple Range Test for ktk

NOTE: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	27
Error Mean Square	5.150804

Number of Means	2	3
Critical Range	1.552	1.631

Means with the same letter are not significantly different.

Duncan Grouping	Mean	N	b
A	17.9311	18	B0
A	17.3861	18	B1
A	16.9306	18	B2

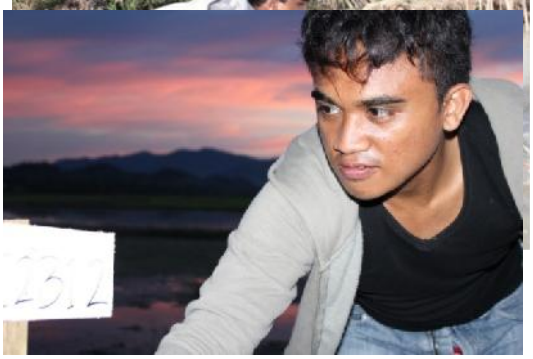
5. Layout Lapangan

II	I	III
iP0C0B02	iP0C0B01	iP0C0B03
iP0C0B12	iP0C0B11	iP0C0B13
iP0C0B22	iP0C0B21	iP0C0B23
iP0C1B02	iP0C1B01	iP0C1B03
iP0C1B12	iP0C1B11	iP0C1B13
iP0C1B22	iP0C1B21	iP0C1B23
iP0C2B02	iP0C2B01	iP0C2B03
iP0C2B12	iP0C2B11	iP0C2B13
iP0C2B22	iP0C2B21	iP0C2B23
iP1C0B02	iP1C0B01	iP1C0B03
iP1C0B12	iP1C0B11	iP1C0B13
iP1C0B22	iP1C0B21	iP1C0B23
iP1C1B02	iP1C1B01	iP1C1B03
iP1C1B12	iP1C1B11	iP1C1B13
iP1C1B22	iP1C1B21	iP1C1B23
iP1C2B02	iP1C2B01	iP1C2B03
iP1C2B12	iP1C2B11	iP1C2B13
iP1C2B22	iP1C2B21	iP1C2B23
iP2C0B02	iP2C0B01	iP2C0B03
iP2C0B12	iP2C0B11	iP2C0B13
iP2C0B22	iP2C0B21	iP2C0B23
iP2C1B02	iP2C1B01	iP2C1B03
iP2C1B12	iP2C1B11	iP2C1B13
iP2C1B22	iP2C1B21	iP2C1B23
iP2C2B02	iP2C2B01	iP2C2B03
iP2C2B11	iP2C2B11	iP2C2B11
iP2C2B22	iP2C2B21	iP2C2B23

6. Gambar Peninjauan Awal Lokasi Penelitian di Desa Bandungrejo Kecamatan Boliyohuto Kabupaten Gorontalo Provinsi Gorontalo

7. Gambar Persiapan dan Pengukuran Petak Penelitian

8. Gambar Pemberian Label Petak Penilitian



9. Gambar Persiapan dan Pencampuran Material Penelitian Berupa Pasir, Sabut Batang Pisang dan Sabut Kelapa Pada Epiaquerts Ustic

10. Gambar Pengambilan Sampel Tanah Untuk Dilakukan Uji Di Laboratorium