

### 1. Analisa daun

Meliputi analisa daun untuk menentukan kandungan unsur hara di daun dan status hara tanaman.

No.	Parameter	Digestion And Extraction Techniques	Method Of Detection	Price (Rp)
1	Total N	Wet Digestion	Kjeldahl Titrimetry	42,000
2	Phosphorus (P)	Dry Ashing	Spectrophotometry	42,000
3	Potassium (K)		Flamephotometry	34,000
4	Calcium (Ca)		AAS	34,000
5	Magnesium (Mg)		AAS	34,000
7	Chloride (Cl)		Titrimetry	38,000
8	Manganese (Mn)	Dry Ashing	AAS	34,000
9	Boron (B)			50,000
10	Copper (Cu)			34,000
11	Zinc (Zn)			34,000
12	Iron (Fe)			34,000
13	Sulfur	Wet Digestion	Gravimetry	60,000
14	N,P,K,Mg,Ca			186,000
15	N,P,K,Mg, Ca,B			236,000
14	N,P,K,Mg,B,Ca,Cu,Zn,Mn,Fe			372,000
15	N,P,K,Mg,Ca,B,Cu,Zn,Mn,Fe,Cl,S			470,000

### 2. Analisa Tanah

Meliputi analisa kimia dan fisika sebagai berikut :

No.	Parameter	Test Method	Price(Rp)
1	Sample Preparation	Air/Sun Drying	15,000
2	Particle Size Distribution	Pipette	40,000
3	matter	Walkley &Black Titration / Ashing	40,000
4	Total N	Kjeldahl Titrimetry	42,000
5	C.E.C	Titrimetry	72,000
6	Exch.Cation (K, Ca, Mg) in 1 N NH <sub>4</sub> OAC pH7	Flamephotometry (K) ; AAS ( Ca, Mg)	72,000
7	pH - H <sub>2</sub> O ( 1 : 2.5 )	Electrometry	18,000
8	pH - KCl 0.01 N ( 1 : 2.5 )		18,000
9	Available P (Bray I or II)	Spectrophotometry	30,000
10	25 % HCl P	Flamephotometry	35,000
11	25 % HCl K		35,000
<b>Routine Analysis ( 1 to 11 )</b>			
12	25 % HCl, Ca,Mg,Cu,Zn,Mn,Fe masing - masing	AAS	42,000
13	Conductivity	Electrometry	18,000
14	Lime requirement *		40,000
15	Total P (Perchloric/sulphuric)	Spectrophotometry	50,000
16	Boron in hot water		50,000
17	Bulk Density *	Oven	50,000
18	Exchangeable - Al + H	Titrimetry	40,000

**Note** - Harga belum termasuk ppn 10 %

- Untuk analisa **daun**, jika permintaan analisis hanya 1 elemen saja, maka dikenakan biaya persiapan sampel sebesar **Rp. 20.000**; untuk **Limbah dan kompos** sebesar **Rp.75.000**

- Harga dapat berubah sewaktu-waktu

### 4. Analisa CPO

Meliputi analisa kimia yang berhubungan dengan kualitas CPO

No.	Parameter	Test Method	Price (Rp)
1	VOLATILE MATTER	Oven	35,000
2	FFA	Titrimetry	65,000
3	β - Carotene + DOBI	Spectrophotometry	140,000
4	Analisa ( FFA, VM, Dirt, β - Carotene + DOBI )		250,000
5	Peroxide Value (PV)	Titrimetry	85,000
6	Iodine Value (IV) *		100,000
7	Dirt	Gravimetry	60,000
8	Analisa P, Boron, Fe, Cu dan Zn - masing-masing *( jika analisa per individu)	P & B Spectrophotometry Fe,Cu,Zn -AAS	130,000
9	Analisa P, Boron, Fe, Cu dan Zn ( Komplit ) *		360,000

### 5. Analisa POME (Air Limbah)

No.	Parameter	Test Method	Price (Rp)
1	BOD *	5 Days Incubation - Titrimetry	100,000
2	COD	Refluks - Titrimetry	130,000
3	TSS	Gravimetry	50,000
4	TS		50,000
5	Oil & Grease *	Separating Funnel	60,000
8	Alkalinity *	Titrimetry	35,000
9	Am N *	Titrimetry	42,000

### 6. Analisa Kompos/ POME ( Air Limbah )

No.	Parameter	Test Method	Price (Rp)
1	pH	Electrometry	25,000
2	Moisture	Oven	25,000
3	Loss on Ignition/Bahan Organik	Ashing	50,000
4	Organic Carbon	Walkley &Black Titration	40,000
5	CEC	Titrimetry	72,000
6	Boron		140,000
7	N, P, K, Moisture + (*)	N - Kjeldahl Distillation; K <sub>2</sub> O - Flamephotometry P. Spectrophotometry ; Mg/Cu/Zn/Mn/Fe-AAS; B- Carmine Spectrophotometry	265,000
8	N, P, K, Mg, Moisture + (*)		285,000
9	N, P, K, Mg, B, Moisture + (*)		360,000
10	OC, BO, N, P, K, Ca, Mg, B, Fe, Mn, Cu, Zn, pH ( satu paket)		643,000
11	Total Ca, Fe, Mn, Cu, Zn masing-masing + (*)		50,000

### 3. Mill Product & Bunch Analysis Charges

No	Parameter	Price (Rp)
1	Oil Losses in Kernel; Press Fibre; Sludge	100,000
2	Bunch analysis	200,000

### 7. Analisa Pupuk

Bertujuan untuk menentukan kualitas pupuk, apakah sudah sesuai dengan standar dan spesifikasi pupuk yang bersangkutan

No.	Parameter	Test Method	Price ( Rp )
1	MOP/KCl ( Moisture + K <sub>2</sub> O ) / <i>Bunch Ash</i> ( Moisture + K <sub>2</sub> O )	MC- Oven; K <sub>2</sub> O- Flamephotometry	130,000
2	Urea ( <i>Moisture</i> + Total N )	MC -Desicator ; N - Kjeldahl Distillation	130,000
3	ZA ( Moisture + Total N )		130,000
4	ZA ( Moisture + Total N + S )	MC-Oven ; N - Kjeldahl Distillation; S -Gravimetry	230,000
5	Kieserite ( Moisture + Total MgO )	MC -Oven; MgO-AAS	130,000
6	Kieserite ( Moisture + Total MgO + Water Soluble MgO )		230,000
7	Kieserite ( Moisture + Total MgO + Water Soluble MgO + S )	MC -Oven; MgO-AAS; S - Gravimetry	320,000
8	RP ( Moisture + Total P <sub>2</sub> O <sub>5</sub> )	MC - Oven; Total / CAS / WS P <sub>2</sub> O <sub>5</sub> . Spectrophotometry	130,000
9	RP ( Moisture +Total P <sub>2</sub> O <sub>5</sub> + CAS P <sub>2</sub> O <sub>5</sub> )		230,000
10	TSP / SP 36 ( Moisture + Total P <sub>2</sub> O <sub>5</sub> )		130,000
11	TSP /SP36 ( Moisture +Total P <sub>2</sub> O <sub>5</sub> + Water Soluble P <sub>2</sub> O <sub>5</sub> )		230,000
12	Dolomite ( Moisture+Total MgO + Kehalusan 100 & 35 Mesh )	MC - Oven; MgO - AAS; Kehalusan - Sieving	170,000
13	Dolomite ( Moisture +Total MgO+Total CaO+Kehalusan 100 & 35 Mesh )	MC - Oven; MgO/CaO -AAS; Kehalusan-Sieving	230,000
14	Dolomite ( Moisture + Total MgO+Total CaO )	MC -Oven; MgO/CaO -AAS	170,000
15	NK ( Moisture + N + K <sub>2</sub> O )	MC -Oven ; N - Kjeldahl Distillation; K <sub>2</sub> O - Flamephotometry	230,000
16	NPK ( Moisture + N + Total P <sub>2</sub> O <sub>5</sub> + K <sub>2</sub> O )	MC -Oven/ Desicator ; N - Kjeldahl Distillation; K <sub>2</sub> O-Flamephotometry ; P <sub>2</sub> O <sub>5</sub> Spectrophotometry ; MgO- AAS; B <sub>2</sub> O <sub>3</sub> - Carmine Spectrophotometry	265,000
17	NPK ( Moisture + N +Total P <sub>2</sub> O <sub>5</sub> + K <sub>2</sub> O + $\frac{B_2O_3}{100}$ )		370,000
18	NPK ( Moisture + N +Total P <sub>2</sub> O <sub>5</sub> + K <sub>2</sub> O + $\frac{B_2O_3}{100}$ +Cu+Zn )		475,000
19	NPK ( Moisture + N + Total P <sub>2</sub> O <sub>5</sub> + K <sub>2</sub> O + MgO )		285,000
20	NPK ( Moisture + N + Total P <sub>2</sub> O <sub>5</sub> + K <sub>2</sub> O + MgO+ $\frac{B_2O_3}{100}$ )		400,000
21	NPK (Moisture+N+Total P <sub>2</sub> O <sub>5</sub> + WS P <sub>2</sub> O <sub>5</sub> +K <sub>2</sub> O+MgO+ $\frac{B_2O_3}{100}$ )		520,000
20	HGFB - Borate ( Moisture + B <sub>2</sub> O <sub>3</sub> )	MC- Oven :B <sub>2</sub> O <sub>3</sub> - Carmine Spectrophotometry	130,000
21	ZnSO <sub>4</sub> (Moisture + Zn)	MC - Desicator ; Zn-AAS; Cu-AAS; S - Gravimetry	130,000
22	ZnSO <sub>4</sub> (Moisture + Zn + $\frac{S}{100}$ )		230,000
23	CuSO <sub>4</sub> (Moisture + Cu)		130,000
24	CuSO <sub>4</sub> (Moisture + Cu + $\frac{S}{100}$ )		230,000
25	ZinkCop ( Moisture + Zn + Cu )		180,000
26	ZinkCop ( Moisture + Zn + Cu + S )		295,000
27	$\frac{FeSO_4}{100}$ ( Moisture + Fe )	MC - Desicator Fe -AAS	130,000
28	$\frac{FeSO_4}{100}$ ( Moisture + Fe + S )	MC - Desicator ; Fe -AAS; S - Gravimetry	230,000
29	Parameter S	Gravimetry	130,000
30	Kehalusan 25; 35; 80; 100 mesh ( @ )	Sieving	60,000
31	LSD -CaCO <sub>3</sub> - (Moisture + Total MgO+Total CaO) *	MC - Oven ; MgO/CaO -AAS	170,000
32	LSD - CaCO <sub>3</sub> - (Moisture + Total MgO + Total CaO + MgCO <sub>3</sub> + CaCO <sub>3</sub> + Kehalusan 1 jenis ) *	MC - Oven; MgO/CaO -AAS; Kehalusan-Sieving	230,000
33	Kadar Air	Oven/ Desicator	130,000

**Note :** - Harga belum termasuk ppn 10% dan dapat berubah sewaktu waktu

- Setiap penambahan unsur pada jenis pupuk yang sudah ditentukan maka dikenakan biaya tambahan sebesar Rp. 50.000 per parameter kecuali untuk penambahan unsur P<sub>2</sub>O<sub>5</sub> total atau P<sub>2</sub>O<sub>5</sub> CAS atau P<sub>2</sub>O<sub>5</sub> WS, B<sub>2</sub>O<sub>3</sub>, S dikenakan biaya Rp 130.000 per parameter