THE BENEFITS OF USING PERDANA HIJAU^{19+3} NANOCOMPLEX FERTILIZERS

1. Activates Bio Catalytic processes in the soil
2. Balances soil pH
3. Soil water holding capacity Improves
4. Induces root growth
5. No water needed for absorption into soil
6. Tailor made for monocots and dicots
7. Total balanced nutrition with growth regulators
8. Increases leaf and frond size
9. Increases photosynthetic activity
10. Stimulates flowering
11. Reduces disease proliferation
12. Reduces nutrient volatilization
13. Creates healthier and more vigorous plants
14. Minimal loss due to leaching
15. Crops require lesser time to mature
16. Boosts heavier crop sets
17. Generates sweeter fruits
18. Yield increases significantly
19. Higher oil extraction ratios over time
20. Input cost is lowered
21. Value for money

FULL RANGE OF PHN19+3 FERTILIZERS "TAILOR MADE" FOR EACH CROP

TYPE FOR CROP	N%	P2O5%	K2O%	MgO%	TE
PHNF Bananas	12.0	6.0	17.0	4.0	*
PHNF Cabbage	17.0	5.4	15.5	2.0	*
PHNF Chilli	12.0	13.0	17.0	3.5	*
PHNF Citrus	12.5	7.5	13.0	5.0	*
PHNF Cocoa	12.0	5.0	18.0	4.0	*
PHNF Coconut (Mature)	12.0	5.0	18.0	4.0	*
PHNF Coffee	13.0	5.0	15.0	3.0	*
PHNF Chrysanthemum	14.0	7.0	12.0	4.0	*
PHNF Durian	14.0	7.0	18.0	3.5	*
PHNF Gourds	10.0	14.0	16.0	3.0	*
PHNF Groundnuts	7.0	14.0	14.0	3.0	*
PHNF Guava	14.0	7.0	18.0	3.5	*
PHNF Horticulture	15.0	12.0	17.0	3.0	*
PHNF Flowering I	10.0	8.0	18.0	4.0	*
PHNF Ladies Fingers	12.0	7.0	10.0	2.0	*
PHNF Mango	13.0	6.0	16.0	4.0	*
PHNF Maize(Cob)	17.0	5.0	12.0	2.0	*
PHNF Maize(Seed)	13.0	8.0	11.0	4.0	*
PHNF Oil Palm I	18.0	8.0	12.0	3.0	*
PHNF Oil Palm II (matured)	12.0	6.0	18.0	4.0	*
PHNF Oil Palm II (old)	10.0	4.0	20.0	3.5	*
PHNF Paddy	21.0	4.6	7.0	2.0	*
PHNF Papaya (Sandy soils)	10.0	14.0	10.0	2.5	*
PHNF Papaya (Normal)	10.0	12.0	16.0	2.5	*
PHNF Pepper	13.0	6.0	18.0	4.0	*
PHNF Rubber (Immature)	12.0	8.0	18.0	4.0	*
PHNF Rubber (Mature - stimulated)	18.0	7.0	13.0	3.0	*
PHNF Rubber (M - non-stimulated)	18.0	4.0	13.0	3.0	*
PHNF Stafruit	14.0	7.0	18.0	3.5	*
PHNF Sugar Cane	11.0	6.0	12.0	3.5	*
PHNF Sweet Potato	7.0	10.0	18.0	3.0	*
PHNF Tapioca	10.0	5.0	18.0	3.0	*
PHNF Tea (below 3000kg made tea)	18.0	4.0	10.0	2.0	*
PHNF Tea (above 3000kg made tea)	14.0	4.5	14.0	2.0	*
PHNF Tobacco/Bris AFM	5.0	10.0	20.0	4.0	*
PHNF Tobacco/Clay AFM	6.0	11.0	16.0	3.5	*
PHNF Tomato	10.0	8.6	18.0	3.5	*
PHNF Vegetable-leafy	15.0	10.0	15.0	2.5	*
PHNF Water Melon	10.7	9.6	13.0	2.7	*
PHNF Pasture	17.5	7.3	10.0	2.7	*
PHNF Tropical Fruits	12.0	6.0	18.0	3.5	*
PHNF Grapes	13.0	9.0	17.0	3.5	*
PHNF Honeymelon	10.0	9.0	17.0	3.0	*
PHNF Jackfruit	14.0	7.0	18.0	3.5	*
PHNF Legumes	2.0	12.0	6.0	6.5	*
PHNF Legumes+Grass Basal	2.3	12.0	18.0	3.0	*
PHNF Turf Greening	14.0	6.5	14.0	3.0	*
PHNF Cotton	14.0	8.0	14.0	4.0	*
PHNF Wheat	15.0	6.0	13.0	2.5	*
PHNF Potato-Temperate	12.0	4.0	18.0	2.5	*
PHNF Apple/Pear	20.0	3.0	10.0	3.0	*
PHNF Teak (Immature)	12.0	6.0	18.0	3.5	*
PHNF Teak (Mature)	8.0	4.0	24.0	4.0	*
PHNF Pineapple	10.0	4.0	20.0	3.0	*

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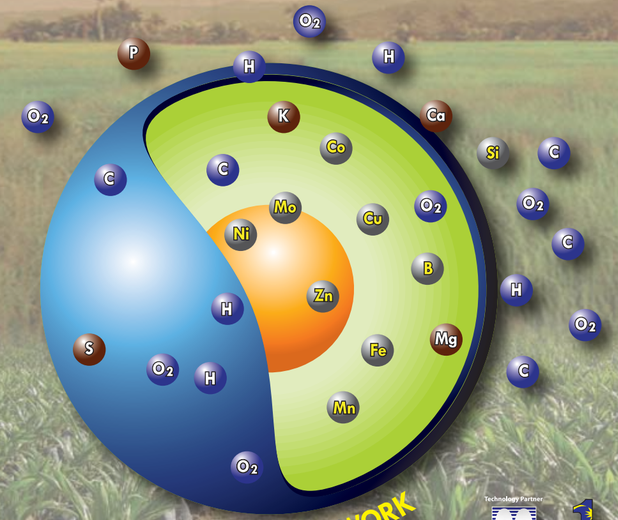
PERDANA HIJAU 19+3
NANOCOMPLEX FERTILIZER

NANOCOMPLEX FERTILIZER

CHELATED TRACE ELEMENTS



NANO AT WORK

Technology Partner: MARDITECH

BUATAN MALAYSIA

6 things you should know about the Nanotechnologies of Perdana Hijau^{19+3} Nanocomplex Fertilizers

1) The Concept

Perdana Hijau^{19+3} Nanocomplex Fertilizers are processed using several core nanoscience technologies. The processes involve the mechanics of nano in chemistry or for short, Mechanochemistry. We are geared toward complete and balanced premium nutrition uptake by plants and their eventual high yield output.

2) Definition and Usage of the Terms

There is no such thing as "a nanotechnology. It consists of sets of enabling nano technologies applicable in relating to a system or process and uses a set of processing tools that characterize the nanomechanics of biomolecular chemical and cellular interactions. Perdana Hijau^{19+3} Nanocomplex Fertilizers are amongst the first to use this processing tool.

3) What's so special about these Nanotechnologies and why is it an issue now?

What we are dealing with today is evolutionary nanotechnology of which Perdana Hijau^{19+3} Nanocomplex Fertilizers is among the first of its kind. The goal of evolutionary nanotechnology is to improve existing processes, materials and applications by scaling down into the nano realm and ultimately fully exploit the unique quantum and surface phenomena of what the basic cell exhibits at the nanoscale.

4) Nanomanufacturing

We know how certain nanocomplexes behave and what properties they possess and have used this knowledge to deliberately create structures with desired properties. This is a much more efficient way than the mixture or blending chemistry of old. Perdana Hijau^{19+3} Nanocomplex Fertilizers clearly endorses this nanomanufacturing theory and our success is contributed to our multinutrient approach from the very beginning.

5) New materials – the rise of Elemental nanostructures

When a metal ion creates a nanocomplex with a ligand, a ring structure will result. This ring structure changes the character of the metal ion and the reactions that it could normally undergo. The term that is designated to this chemical reaction is Chelation. Perdana Hijau^{19+3} Nanocomplex Fertilizers chelates all its micro minerals using organic ligands

6) On Going Research

Perdana Hijau^{19+3} Nanocomplex Fertilizers technical capabilities today allow us to perform much more efficient manufacturing processes and entirely new technological developments and result in higher yield outputs in plant and crop production.

PHNF COFFEE (13:5:15:3+TE)
High quality blends
More body
Aromatic
Perfumey taste with sugary tones

PHNF HORTICULTURE (15:12:17:3.0+TE)
Larger, dark green waxy leaves
High quality, larger flowers
Sharper, more attractive colour and tones
Increases flowering

PHNF OIL PALM I (18:8:12:3+TE)
Longer, heavier fronds
Waxy, rich green leaves
Wider girth
Earlier fruiting

PHNF OIL PALM II (12:6:18:4+TE)
Increases bunch weight
Reduces bunch failure/abortion rate
More resistant to diseases
Increases yields both qualitative and quantitative

PHNF PADDY (21:4.6:7:2+TE)
Increases tillering
Broader laminate
More resistant to diseases
Higher yielding

PHNF TEA (14:4.5:14:2+TE)
Increases leaf size
Higher quality 'pekoe'
Richer gold colour of leaves
Leaves more tippy
More resistant to disease conditions

PHNF YAM BEAN aka JICAMA (7:14:14:3+TE)
Higher quality
Increases production
Higher resistance to disease conditions

PHNF WHEAT (15:6:13:2.5)
Richer green
Higher stimulation of leaf/stem development
Increases tillering
Decreases incidences of chlorosis
Higher yield

PHNF DATES (14:7:14:3.5+TE)
Increase palm growth
Increases palm girth
Increases number of bunches/palm
Increases number of fruits/bunch
Higher brix index (sweetness)

PHNF POTATO (12:4:18:2.5+TE)
Reduces nutritional imbalances
Reduces disease proliferation
Increases crop quality
Increases crop production