

Subject: Treatment of Ganoderma Infections in Palm Trees

Product: Farmcell GDS+ & Farmcell GDS

Location: Private Plantation at Hutan Melintang, Perak



Initial Treatment:

- the Palm tree was treated with Farmcell GDS+ as per protocol to combat Ganoderma infections.

Response and Continued Treatment

- As of 28/02/2024, Ganoderma growth has ceased, indicating successful control and elimination of the infection.
- As of 27/3/2024, Ganoderma growth has dried off.
- As of 3/5/2024, no new Ganoderma found on this tree.

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Location: Batu15 Lekir, Sitiawan, Perak

Date: 6/2/2024
1st Treatment with GDS+



Pic 1

Date: 28/2/2024
2nd Treatment with GDS+



Pic 2

Result on 27/3/2024



Pic 3

This report outlines the treatment process and progress of addressing Ganoderma infections on a Palm tree using Farmcell GDS & GDS+.

Pic 1. Initial Treatment:

the Palm tree was treated with Farmcell GDS+ as per protocol to combat Ganoderma infections.

Pic 2. Discovery of New Ganoderma Growth

-On 28/02/24, new Ganoderma growth was observed despite the initial application of GDS+. It was noted that the fungal activity was a response to the treatment, indicating an aggressive defense mechanism by the fungus.

- Understanding the fungal awareness and regenerative capabilities, subsequent applications of GDS were initiated to ensure effective elimination.

Pic 3. Response and Continued Treatment

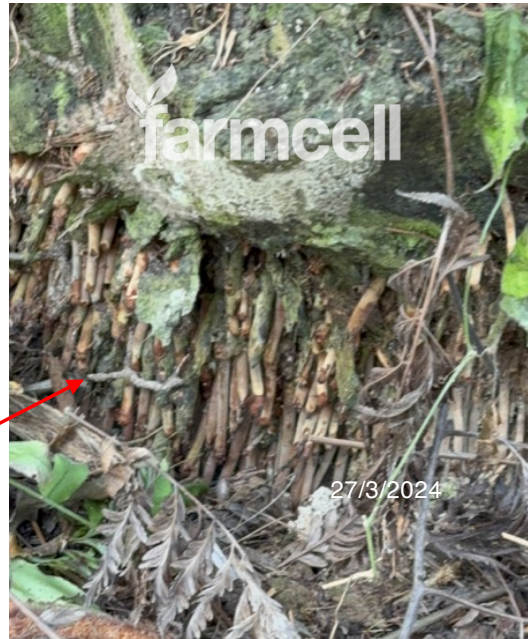
- As of 27/03/2024, Ganoderma growth has ceased, indicating successful control and elimination of the infection.

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Location: Batu15 Lekir, Sitiawan, Perak



New roots emerged



New roots emerged



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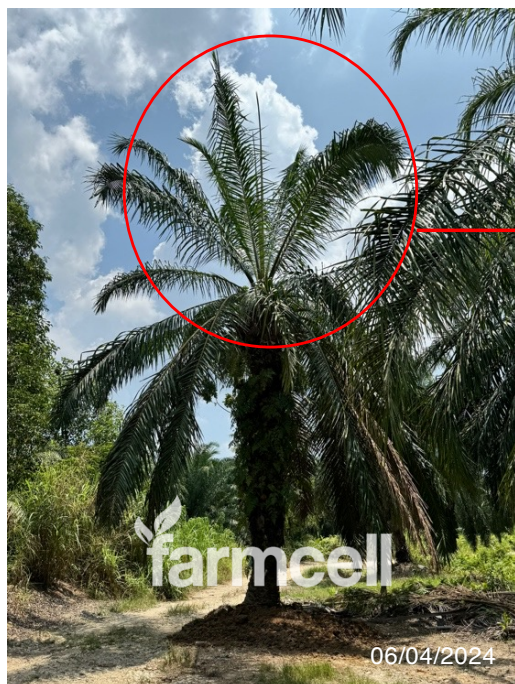
On 27/3/2024, following the application of **Farmcell GDS & GDS+** on the affected palm trees, significant re-rooting was observed.

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After GDS and GDS+ treatment! In addition to finding new root growth, new leaves were also found, indicating that FARMCELL GDS & GDS+ performs well in treating GANODERMA disease and stimulating plant growth. FARMCELL GDS is known for its functions in promoting seed germination, stem elongation, and leaf expansion, and the results of this treatment further prove its effectiveness. The growth of new leaves is a positive indicator, indicating that the physiological processes of the plant have been stimulated, resulting in the production of more leaves. This is a good sign for the health and growth of the plants.



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Location: Batu15 Lekir, Sitiawan, Perak
Observation on 31 May 2024

The diseased oil palm trees have undergone treatment with FARMCELL GDS and GDS+, as well as soil mounting. As a result, the roots have continued to grow, and the leaves have become noticeably more lush.



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Location: Private Plantation at Hutan Melintang, Perak



The oil palm tree has been severely damaged by Ganoderma. The base of the trunk has been seriously affected, and the leaves have stopped growing. After treatment with FARMCELL GDS & GDS+, new roots and leaves have also emerged.

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Location: Batu15 Lekir, Sitiawan, Perak

Sample tree 002



Plantation: Private Plantation

Location: Batu 15 Lekir, Sitiawan Perak

Plantation: Private Plantation.

Location: Hutan Melintang, Perak

Product: Farmcell GDS+ & Farmcell GDS

Subject: Treatment of Ganoderma Infections in Palm Trees

Treatment Timeline:

1. 1st Treatment with GDS+ on Date: 6/2/2024
2. 2nd Treatment with GDS+ Date: 28/2/2024
3. 3rd Treatment with GDS on Date: 27/3/2024
4. 4th Treatment with GDS on Date: 3/5/2024

Observations:

- On 27/03/2024
following the application of **Farmcell GDS & GDS+** on the affected palm trees, significant re-rooting was observed.
 - The treatment resulted in noticeable improvements in the health and vitality of the palm trees.
 - The re-rooting indicates the effectiveness of the treatment in combating the Ganoderma infections and promoting the recovery of the affected trees.
- On 06/04/2024
after treatment with **Farmcell GDS & GDS+**, besides new root growth, new leaf growth was also observed. This indicates that the treatment has had a positive impact on the plant's growth, promoting the development of roots and leaves. These results suggest that Farmcell treatment plays an important role in the growth and development of plants, contributing to enhancing their health and growth.
- On 03/05/2024
According to the recommendation, those treated trees were re-mounted, which plays an important role in the growth and development of plants, contributing to enhancing their health and growth."
- On 31/05/2024
The diseased oil palm trees have undergone treatment with FARMCELL GDS and GDS+, as well as soil mounting. As a result, the roots have continued to grow, and the leaves have become noticeably more lush.

Conclusion:

The application of **Farmcell GDS and GDS+** has been highly effective in curing Ganoderma infections in the affected trees. Not only has it successfully combated the fungal infections, but it has also facilitated significant re-rooting and improvement in the condition of the palm trees. This demonstrates the remarkable efficacy of the treatment in promoting the recovery of the palm trees and restoring their health.

Proposal:

Following the treatments, it is proposed that farmers to re-mount with soil for the re-rooted trees. This measure is crucial for protecting the newly formed roots and ensuring their effective growth. By providing support to the roots through soil re-mounting, the palm trees can further strengthen their root systems and enhance their resilience against future infections or environmental stressors.

The treatment regimen involving Farmcell GDS+ & GDS has effectively halted the growth of Ganoderma infection on the Palm tree. Continued monitoring and maintenance with **FARMCELL GREEN PRO** may be necessary to prevent reoccurrence.

Prepare by: TW CHONG

Date: 6-JUNE-2024