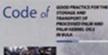




Code of MACTICE FOR ON PALLA ESTATE AND SMALLHOLDINGS













Code of GOOD REFININ PRACTICE FOR PALM OIL REFINERES





MPOB Code of Good Nursery Practice for Oil Palm Nurseries

By Zulkifli Abd.Manaf Idris Omar

















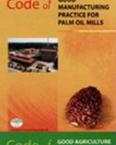
Code of GOOD REFINE PRACTICE FOR PALM OF REFINERIES



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INTRODUCTION

The productivity of an oil palm plantation depends on many factors

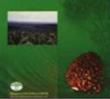
- Most important quality oil palm seedlings that very much dependent on good nursery management and practices
 - CoP Nursery provides guidelines to nursery operators for producing high quality oil palm seedlings







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SCOPE

- Guidelines on management and practices for operating an oil palm nursery
- Seedling production from planting of the DxP oil palm germinated seeds to raising the seedlings until the stage at which they are ready for field planting





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DEFINITIONS

- **Germinated Seed**
- Pre-nursery
- Main Nursery
- Polybag
- Growing Medium
- Abnormal Seedling
- Culling
- Pests
- Integrated Pest Management (IPM)
- Competent Agriculturists



















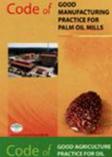
4.1 TRACEABILITY

 The oil palm seedlings produced shall be traceable to a registered or licensed seed producer

4.2 MPOB ACT AND ITS SUBSIDIARIES

 Adhere to the Malaysian Palm Oil Board Act 1998 and its subsidiaries







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4.3 GERMINATED SEED

- Purchased from or supplied by licensed oil palm seed producers authorised by MPOB
- Checked to ensure in good condition and free from any diseases
- Defects and damaged seeds should be removed
- ✓ Plant as soon as possible after delivery





Germinated seed







TENERA













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4.4 NURSERY SITE SELECTION

- Not prone to flooding or water-logging
- ✓ Open area clear of shade
- ✓ Level or on a gentle slope
- ✓ Near to a water source
- Near to sources of good soil for polybags filling
- Accessible by motorized vehicles







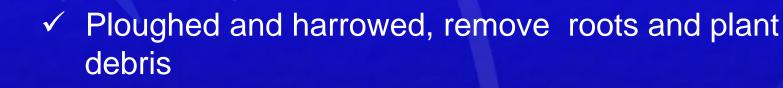


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✓ Adequate drainage system

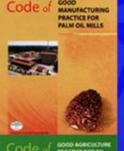
4.5 SITE PREPARATION

Cleared and cleaned

- ✓ Sufficient access roads and working paths
- Protected by fencing



adequate drainage system



4.6 GROWING MEDIUM





 \checkmark



 Free from debris, stones, refuse, sticks, roots and large clods (>1 cm diameter)

✓ Have good water-holding capacity and aeration

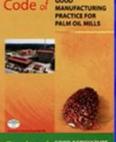
High quality top soil, suitable soil mixture





Free from disease inocula that will affect the growth of the oil palm seedlings



















4.7 IRRIGATION

✓ Clean water (pH > 4.0)

✓ Capable of supplying sufficient water

✓ Settling pond, filtration equipment, water pump

✓ Appropriate watering system

✓ Test runs of irrigation systems prior transplanting



settling pond, suitable filtration equipment and a water pump system should be installed



All seedlings shall receive continuous and sufficient supply of clean water





✓ Storeroom to keep chemicals and equipment

ONLY" and be used strictly for herbicides only

✓ All chemicals, fertilizers shall be labeled and stored separately

Spray containers for herbicides shall be labeled "HERBICIDES



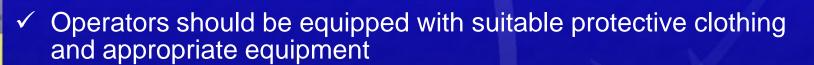








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✓ A clean water source shall be made available for workers

- ✓ Follow the Occupational Safety and Health Act 1994 (Act 514) and **Regulations and Orders**
- Use only chemicals that are registered under the Pesticides Act 1974 (Act 149) and Regulations, and the Food Act 1983 (Act 281)





Operators should be equipped with suitable protective clothing

NURSERY TYPES

or

Single-stage nursery

• MAIN NURSERY

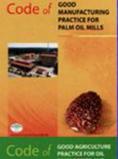
Double-stage nursery

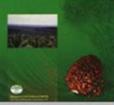
- PRE NURSERY
 - MAIN NURSERY



MAIN NURSERY

PRE-NURSERY





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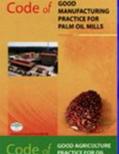


4.9 NURSERY MANAGEMENT AND PRACTICES

4.9.1 Pre-nursery with Seedling Age below 4 Months (120 Days)

- Type of polybag
- Filling of polybags \checkmark
- Arrangement of polybags \checkmark
- Planting the germinated seeds \checkmark
- Watering \checkmark
 - **Fertilizer**
- Weed control \checkmark

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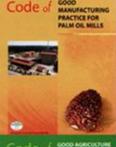
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- Type of polybag
- Filling of polybags
- Arrangement of polybags
- ✓ Planting/ transplanting
- Number of seedlings
- ✓ Watering
- ✓ Fertilizer
- ✓ Weed control



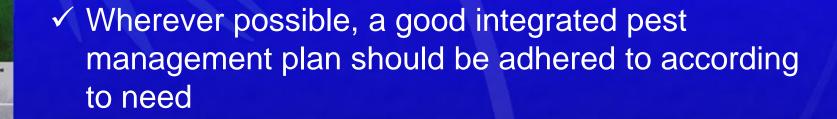
4.9.3 Pest and Disease Control

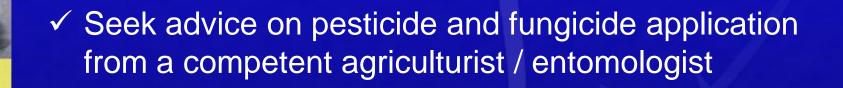


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4.9.4

Culling

(variegated) symptoms shall be culled

Culling of abnormal seedlings prior to transplanting into the field

✓ Seedlings below 4 months - twisted shoot, "grass" or narrow

leaves, rolled leaves, collante, crinkled leaves and chimaera"







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 Seedlings below 12 months - runts or are stunted, barren or erect with an upright rigid appearence, have a flat top, limp, look juvenile, have short internodes, wide internodes, narrow pinnae, acute pinnae insertion, short broad pinnae, chimaera, or any other abnormalities shall be culled

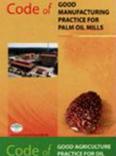
 Culled seedlings shall be destroyed by slashing with a sharp blade such as a 'parang'





Culled seedlings shall be destroyed by slashing with a sharp blade such as a '*parang*'.





4.9.5

 \checkmark













Seedling Dispatch

Seedlings that are normal, healthy, and of the right age shall be dispatched for field planting

- Watered prior to being rotated 180° from its original position one month before transferring them for field planting
- ✓ Watered before dispatching them for field planting
- Carefully handled when loading them into transporting vehicles





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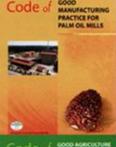




4.9.6 Advanced Planting Materials (APM) as Supply Palms

- Seedling age
- ✓ Type of polybag
- ✓ Arrangement of polybags
- ✓ Fertilizer
- ✓ Weed control
- ✓ Pest and disease control





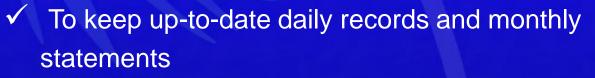
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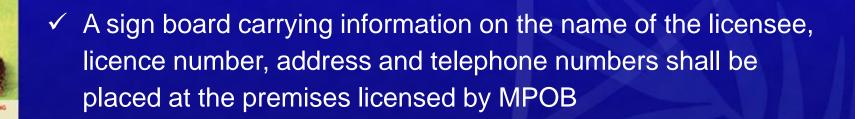
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Record Keeping and Labeling



 Batch or block of seedlings shall be clearly labeled with plot number, name of progeny, numbers of seedlings and dates of sowing and transplanting

















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LEGAL REQUIREMENTS

All oil palm nursery activities and products shall in all aspects comply with the requirements of the legislations currently in force in Malaysia













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CONCLUSION

- This code of practice gives emphasis to the practices and procedures for operating an oil palm nursery
- Oil palm nursery operators should be familiar with all the relevant and applicable recommendations given in this code, and should practice them on a daily basis in addition to their current routine, without compromising the quality of the seedlings prepared for field planting





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THANK YOU

