Department of Occupational Safety and Health
Ministry of Human Resources

HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL IN AGRICULTURE SECTOR PALM OIL PLANTATION

1 Chemical Preparation

⚠ **Slip and fall**
❗ Safe working procedure

⚠ **Chemical spillage**
❗ Personnel protective equipment

⚠ **Chemicals**
❗ Chemical management

2 Transport Fertilizer and Chemicals

⚠ **Excessive load**
❗ Apply buddy system

⚠ **Manual handling**
❗ Safe working procedure

⚠ **Bending work**
⚠ **Uneven ground**
⚠ **Slip and fall**
❗ Training

⚠ **Chemical spillage**
❗ Personnel protective equipment

3 Spraying

⚠ **Chemical spillage**
❗ Chemical management

⚠ **Slip and fall**
❗ Safe working procedure

⚠ **Heat stress**
❗ Allocation of drinking waters nearby
❗ Personnel protective equipment

⚠ **Snake, hornet and bees**
❗ Destroy or remove the nest

4 Manuring

⚠ **Slip and fall**
❗ Safe working procedure

⚠ **Chemical spillage**
❗ Personnel protective equipment

⚠ **Heat stress**
❗ Allocation of drinking waters nearby

⚠ **Snakes, hornet and bees**
❗ Destroy or remove the nest

5 Harvesting

⚠ **Slip and fall**
⚠ **Falling fronds and debris**
❗ Training on correct positioning of pole length

⚠ **Sharp sickle**
❗ Safe working procedure

⚠ **Sharp thorn**
❗ Personnel protective equipment

⚠ **Snake, hornet and bees**
❗ Destroy or remove the nest

6 Trunk Injection

⚠ **Very toxic chemicals**
⚠ **Chemical spillage**
❗ Personnel protective equipment
❗ Scheduled health surveillance
❗ Good hygiene practice

⚠ **Slip and fall**
⚠ **Sharp object**
❗ Safe working procedure

7 Change Tractor Tyre

⚠ **Excessive pressure in tyre**
⚠ **Unstable tractor position**
⚠ **Heavy load**
❗ Safe working procedure

⚠ **Bending work**
❗ Training

⚠ **Hazard**   ❗ Control

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HAZARD IDENTIFICATION, RISK ASSESSMENT AND RISK CONTROL IN THE FISHING INDUSTRY: AQUACULTURE

1 — Feeting the fish

⚠ Open edges around the pond
- ❗ Ensure body position is not too close to the border of the pond to avoid falling into it
- ❗ Place boundary markers showing the limit of where an employee is allowed to feed the fish
- ❗ Install water level depth markers
- ❗ Place warning signs of places with holes and soft ground

⚠ Exposure to chemicals
- ❗ Provide information to employees about the hazards of chemicals (i.e. fish food) used (refer to MSDS)
- ❗ Good personal hygiene

2 — Mowing lawns around the pond

⚠ Lawn mower
⚠ Flying objects
⚠ Noise
⚠ Venomous animals
- ❗ Wear appropriate personal protective equipments (safety shoes, apron, eye protection)

⚠ Hot conditions
- ❗ Provide drinking water dispensers to employees

⚠ Open edges around the pond
- ❗ Place warning signs of places with holes and soft ground
- ❗ Install water level depth markers
- ❗ Ensure body position is not too close to the border of the pond to avoid falling into it
- ❗ Place boundary markers showing the limit of where an employee is allowed to mow the lawn

3 — Removing fish eggs from the fish's mouth

⚠ Violent reaction from fish
- ❗ Provide training to employees on the proper techniques of removing fish eggs from the fish's mouth
- ❗ Wear appropriate personal protective equipments (goggles and gloves)

⚠ Muddy pond
- ❗ Provide Safe Working Procedures
- ❗ Adopt a 'buddy' system
- ❗ Provide training to employees on basic swimming techniques
- ❗ Wear safety jackets

4 — Inspecting the condition of the fish in the storage bins

⚠ Heavy storage covers
- ❗ Provide hinges on storage covers
- ❗ Provide Safe Work Procedures related to manual handling
- ❗ Provide training on safe inspection techniques to employees

⚠ Slippery floor
- ❗ Use rubber shoes to avoid falling and slipping

⚠ Bending works
- ❗ Provide training and Safe Working Procedures on ergonomics

⚠ Uncovered storage bins
- ❗ Adopt a 'buddy' system
- ❗ Provide warning lights to indicate work is being carried out

5 — Monitoring the fish in the storage bins

⚠ Unstable ladders
- ❗ Use a stable working platform

⚠ Slippery floor
- ❗ Install warning signs on a slippery working environment
- ❗ Maintain the floor at all times
- ❗ Use proper shoes to avoid falling and slipping

6 — Treating diseased fish

⚠ Exposure to chemicals
- ❗ Provide information to employees about the health hazards of chemicals (i.e. drugs) used (refer to MSDS)
- ❗ Use appropriate personal protective equipment (goggles, gloves and safety shoes)

⚠ Slippery floor
- ❗ Use proper shoes to avoid falling and slipping
- ❗ Provide warning signs on slippery working environment
- ❗ Maintain the floor at all times

7 — Selecting fish using strainer

⚠ Slippery floor
- ❗ Use suitable rubber shoes to avoid falling and slipping
- ❗ Provide warning signs on a slippery working environment
- ❗ Maintain the floor at all times

⚠ Messy wiring
- ❗ Ensure tidiness of electrical wires used
- ❗ Ensure wiring is in accordance with the standards set
- ❗ Replace old or damaged electrical wiring
- ❗ Place warning signs in the area of slippery floors
- ❗ Place warning signs in the area of electrical wires

8 — Inserting oxygen into plastic bags before fish are sold

⚠ Bending works
- ❗ Use a table suitable with the worker's height in order to conveniently insert oxygen into the plastic bag
- ❗ Provide training to employees on the proper methods to insert oxygen into the plastic bags

⚠ Pressurized oxygen tanks
- ❗ Provide Safe Working Procedures

⚠ Leaked oxygen tanks
- ❗ Place warning signs in the work area, for example "CAUTION, FLAMMABLE"

⚠ Fallen oxygen tanks
- ❗ Provide fencing around the oxygen tank to ensure tank stays up right
- ❗ Provide a stable base to place the oxygen tank

⚠ **Hazard**   ❗ Control