

Common Mosquito Breeding Places:  
**Worker Dormitories**



Section B Chapter 4 Worker Dormitories

Section B



# Roof Top Water Tanks



## Floor Under Water Tanks



### Causes of mosquito breeding

- Water stagnation on uneven floor due to
  - a) rain accumulation
  - b) overflows
  - c) leakages from pipes



### Preventive/remedial measures

- Shield tanks from rain
- Channel overflows away
- Fix leaking pipes
- Apply BTI briquettes periodically



## Check For Gaps And Openings At Covers And Ventilation Holes



### Causes of mosquito breeding

- Inspection covers not properly closed after maintenance work
- Damaged, corroded or missing covers and cover gaskets
- Ventilation holes not covered or screened



### Preventive/remedial measures

- Close inspection covers properly after maintenance
- Repair or replace covers and cover gaskets
- Install rubber gasket for tank covers to eliminate gaps
- Cover all ventilation holes with anti-mosquito screen







### Check For Torn Or Detached Mosquito Nettings



#### Causes of mosquito breeding

- Anti-mosquito netting for overflow outlets is absent, damaged or not properly installed



#### Preventive/ remedial measures

- Cover all overflow outlets with anti-mosquito netting and replace all damaged nettings



## Reinforced Concrete Flat Roof Including Scupper Drains



#### Causes of mosquito breeding

- Water stagnation due to
  - a) uneven floor
  - b) clogged drains
  - c) poor gradient of drains



#### Preventive/ remedial measures

- Re-grade uneven floor
- Carry out regular cleaning to prevent blockages
- Re-grade uneven drains



## Roof Gutters



#### Causes of mosquito breeding

- Water stagnation due to
  - a) warping of roof gutters, impeding water flow
  - b) poor gradient of gutters
  - c) roof gutters choked with leaves or silt
  - d) Misalignment of rainwater downpipes with elbow joint, resulting in blockages



#### Preventive/ remedial measures

- Remove roof gutters where possible
- Re-grade uneven gutters
- Carry out regular cleaning to prevent blockages
- Apply BTI briquettes periodically

## Discarded Items & Receptacles



#### Causes of mosquito breeding

- Water stagnation in discarded receptacles



#### Preventive/ remedial measures

- Carry out regular cleaning and disposal of unwanted articles







# Corridor & Staircase

## Corridors And Staircase Landings, Including Scupper Drains



### Causes of mosquito breeding

- Water stagnation due to
  - a) uneven floor
  - b) clogged drains
  - c) poor gradient of drains



### Preventive/remedial measures

- Re-grade uneven floor
- Carry out regular cleaning to prevent blockages
- Re-grade uneven drains



## Gully/ Floor Traps



### Causes of mosquito breeding

- Water stagnation in gully/ floor traps



### Preventive/remedial measures

- Install anti-mosquito valve into traps
- Clear blockages in traps
- Seal up traps that are no longer in use

## Flower Pots/ Plates/ Watering Cans/ Plastic Containers/ Domestic Containers



### Causes of mosquito breeding

- Water stagnation in flowerpot plates and on hardened soil
- Collection of water in domestic containers and receptacles



### Preventive/remedial measures

- Remove flowerpot plates where possible
- Loosen hardened soil regularly
- Empty all water in domestic containers and receptacles
- Store domestic containers and receptacles under shelter, away from rain





## Canopies



### Causes of mosquito breeding

- Water stagnation due to
  - a) clogged drainage pipes
  - b) uneven flooring of canopies



### Preventive/remedial measures

- Maintain drainage pipes regularly to prevent blockages
- Re-grade floor of concrete canopies
- Apply BTI briquettes periodically

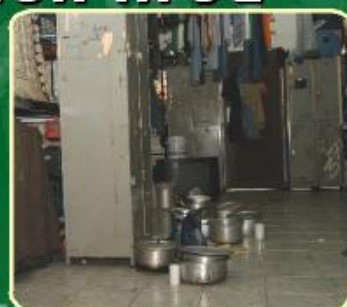
## Discarded Items & Receptacles

For details, refer to page 73:  
RoofTop – Discarded Items  
& Receptacles



## Living Quarters & Common Area

### Plastic Containers/ Cooking Pots & Pans/ Domestic Containers



### Causes of mosquito breeding

- Water stagnation in plastic containers, cooking pots and pans and other domestic containers



### Preventive/remedial measures

- Remove containers where possible
- Empty all water in containers and receptacles







# Toilet & Bathroom

## Pails (Including rims of overturned pails) / Plastic Containers



### Causes of mosquito breeding

- Water stagnation in pails and containers, including rim of overturned pails



### Preventive/remedial measures

- Empty all water in pails and containers



## Toilet Cisterns & Unused Toilet Bowls



### Causes of mosquito breeding

- Stagnation of water in both cisterns and toilet bowls



### Preventive/remedial measures

- Drain out all water in unused cisterns
- Cover and seal unused toilet bowls
- Seal off overflow outlets of cisterns

## WC Pan Collars



### Causes of mosquito breeding

- Water stagnation at gap of WC pan collars



### Preventive/remedial measures

- Seal up gap of WC pan collars with cement





## Drainholes Of Unused Sinks



### Causes of mosquito breeding

- Water stagnation in drainholes of unused sinks



### Preventive/remedial measures

- Cover and seal unused sinks

## Gully/ Floor Traps

For details, refer to page 74:  
Corridor & Staircase – Gully/ Floor Traps



## Cooking & Washing Area

### Cooking Pots & Pans/ Domestic Containers



### Causes of mosquito breeding

- Water stagnation in cooking pots and pans and other domestic containers



### Preventive/remedial measures

- Empty all water in containers regularly







## Gully/ Floor Traps

For details, refer to page 74:  
*Corridor & Staircase – Gully/ Floor Traps*



## Grease Traps



### Causes of mosquito breeding

- Water stagnation in grease traps due to blockages



### Preventive/remedial measures

- Carry out regular cleaning to prevent blockages

## Refrigerator Trays



### Causes of mosquito breeding

- Collection of condensed water in refrigerator trays



### Preventive/remedial measures

- Empty all water in the trays regularly



## Flooring Under Sinks (may be concealed by cabinets)



### Causes of mosquito breeding

- Water stagnation on flooring below sinks due to leaks from pipes



### Preventive/remedial measures

- Fix pipe leakages
- Apply BTI briquettes periodically







## Discarded Items & Receptacles

For details, refer to page 73:  
RoofTop – Discarded Items  
& Receptacles



## Ground Level Pump Rooms/ Switch Rooms

### Concrete Floor



#### Causes of mosquito breeding

- Water stagnation on uneven floor due to overflows or leakages from pipes



#### Preventive/remedial measures

- Channel overflows away
- Fix leaking pipes
- Apply BTI briquettes periodically



### Gully/ Floor Traps

For details, refer to page 74:  
Corridor & Staircase –  
Gully/ Floor Traps



### Discarded Items & Receptacles

For details, refer to page 73:  
RoofTop – Discarded Items & Receptacles





## Gully/ Floor Traps

For details, refer to page 74:  
Corridor & Staircase –  
Gully/ Floor Traps



## Scupper Drains



### Causes of mosquito breeding

- Water stagnation due to
  - a) clogged drains
  - b) poor gradient of drains



### Preventive/remedial measures

- Carry out regular cleaning to prevent blockages
- Re-grade uneven drains

## Discarded Items & Receptacles

For details, refer to page 73:  
Roof Top – Discarded Items  
& Receptacles







# Apron of Building

## Gutters Including Linkway Gutters



### Causes of mosquito breeding

- Water stagnation due to
  - a) warping of roof gutters, impeding water flow
  - b) poor gradient of gutters
  - c) roof gutters clogged with leaves or silt
  - d) Misalignment of rainwater downpipes with elbow joint, resulting in blockages



### Preventive/remedial measures

- Remove roof gutters where possible
- Re-grade uneven gutters
- Carry out regular cleaning to prevent blockages
- Apply BTI briquettes periodically



## Subterranean Pits & Chambers Including Key Holes Or Gaps In Covers



### Causes of mosquito breeding

- Collection of rainwater in chambers due to seepage through keyholes or gaps around the covers
- Water stagnation in keyholes of the covers



### Preventive/remedial measures

- Close covers properly after maintenance
- Seal up keyholes and gaps around covers







## Stop-cock pits



### Causes of mosquito breeding

- Refer to page 81: Inspection Chambers and Sump Pits



### Preventive/remedial measures

- Seal up keyholes and gaps around covers



## Lightning Conductor Pits



### Causes of mosquito breeding

- Collection of rainwater in chambers due to seepage through keyhole or gaps around cover



### Preventive/remedial measures

- Fill up pits with sand and seal keyholes



## Valve Chambers/ Water Meter Concrete Compartments



### Causes of mosquito breeding

- Collection of rainwater in chambers due to blockages



### Preventive/remedial measures

- Carry out regular cleaning to prevent blockages







# Open And Closed Perimeter Drains



## Causes of mosquito breeding

- Water stagnation in drains due to
  - a) blockages
  - b) poor gradient
- Cleaning cannot be carried out properly in covered drains due to concrete slabs / metal gratings



## Preventive/remedial measures

- Carry out regular cleaning to prevent blockages
- Re-grade uneven drains
- Remove concrete slabs / metal gratings permanently to facilitate cleaning



# Outdoor Hanging And Standing Bins



## Causes of mosquito breeding

- Collection of water at base of bins
- Drainage holes at base of bins are clogged



## Preventive/remedial measures

- Provide drainage holes at base of bins
- Carry out regular cleaning to clear blockages



# Tree Holes, Bifurcation Between Branches, And Thick Leaf Axils

(Banana trees, traveller's palm and any similar plants that can collect rainwater)



## Causes of mosquito breeding

- Collection of rainwater in tree holes, depressions between branches and thick leaf axils



## Preventive/remedial measures

- Seal up all tree holes and depressions permanently with ferns or sand
- Avoid planting of vegetation with thick leaf axils







## Ground Puddles/ Depressions



### Causes of mosquito breeding

- Collection of rain water in ground puddles or depressions



### Preventive/remedial measures

- Back-fill puddles or depressions permanently



## Discarded Items & Receptacles

For details, refer to page 73:

*RoofTop – Discarded Items & Receptacles*



## Ground Carpark Open And Closed Carpark Drains

For details, refer to page 83:

*Apron of Building – Open and Closed Perimeter Drains*

## Carpark Aeration Slabs



### Causes of mosquito breeding

- Collection of water in hollows of aeration slabs



### Preventive/remedial measures

- Refill hollows with soil and carry out replanting of grass to prevent soil erosion







## Parked Bicycles



### Causes of mosquito breeding

- Collection of rainwater in bicycle parts



### Preventive/remedial measures

- Store all bicycles under shelter



## Discarded Items & Receptacles

For details, refer to page 73:  
*RoofTop – Discarded Items & Receptacles*

## Bin Point/ Bin Room Rooftop Including Gutters



### Causes of mosquito breeding

- Water stagnation due to
  - a) uneven surface of concrete rooftop
  - b) poor gradient of gutters
  - c) roof gutters clogged with leaves or silt
  - d) Misalignment of rainwater downpipes with elbow joint, resulting in blockages



### Preventive/remedial measures

- Re-grade uneven gutters and concrete rooftop
- Carry out regular cleaning to prevent blockages
- Apply BTI briquettes periodically







## Concrete Floor Including Scupper Drains



### Causes of mosquito breeding

- Water stagnation due to
  - a) uneven floor
  - b) clogged drains
  - c) poor gradient of drains



### Preventive/remedial measures

- Re-grade uneven floor
- Carry out regular cleaning to prevent blockages
- Re-grade uneven drains



## Gully/ Floor Traps

For details, refer to page 74:  
Corridor & Staircase –  
Gully/ Floor Traps



## Stored Bulk Bins



### Causes of mosquito breeding

- Water stagnation in stored bulk bins due to accumulation of rain



### Preventive/remedial measures

- Shield bins from rain

## Discarded Items & Other Water Bearing Receptacles



For details, refer to page 73:  
RoofTop – Discarded Items & Receptacles