Common Mosquito Breeding Places:

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

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**Discarded Items & Receptacles**

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

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**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: 
Roof Top – 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:
Roof Top – 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: RoofTop – 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

**Inspection Chambers And Sump Pits**

**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

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**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

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**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:
Roof Top – 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:
Roof Top – Discarded Items & Receptacles