



NIRDESH ADVISORY – 01

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FLOODING

1. With the onset of monsoon, shipyards and shipbuilders are likely to face a number of safety risks, because of flooding. The following guidelines may please be considered by shipbuilders to avoid / reduce flooding risks.

SEABORNE & WATERFRONT ASSETS

2. To prevent flooding risk in seaborne and waterfront assets please:

- Ensure that dock gates, caisson gates, cofferdams and underwater valves and openings are closed when not in use.
- Seal unacceptable leakage in above items, when closed.
- Secure tugs, barges and other assets in water with double ropes / springs and hurricane hawsers; and provide adequate fenders.
- Ensure that all openings to release flood water are clear of obstructions.
- Remove plastics and other materials which may clog the above openings.
- Inspect quay side de-watering openings to ensure that there is no reverse flooding in high water.
- Keep de-flooding pumps, hoses, extension cables, plugs, cement / sand bags and other items on standby to fight flooding.
- Ensure that areas prone to flooding and vessels in water are provided with secure guard rails and safety gears.
- Close all weather deck openings such as soft patches and hatches on vessels afloat, when not in use.
- Keep life boats, life rafts, life buoys and other safety gears standby.
- Provide adequate lighting and ensure that electric supply is readily available in waterfront areas.
- Allow only essentially required personnel to board vessels afloat and work in waterfront areas.
- Ensure that such personnel wear protection gear like life vest and non-skid shoes.



WORKSHOPS, OFFICES & OTHER BUILDINGS

3. Following guidelines can help in preventing flooding risk in workshops, offices and other buildings.

- Prevent water stagnation by de-silting and cleaning all drains.
- Clear roofs of dry leaves, weeds, creepers and clear all carry away pipes and drains.
- Ensure that roofs of buildings are not leaking.
- Keep terrace doors, day lights and other roof top openings closed, when not in use.
- Repair damaged doors, windows and shutters through which water may enter.
- Clear water, oil and other slippery fluids that may collect in working spaces.
- Keep all manholes and other openings closed.
- Do not enter open, flooded manholes without adequate protection.
- Ensure that all strainers, sewage lines, gutters scuppers and drain passages are kept clear and clean.
- Clear construction materials, debris, garbage and plastics that may choke drains.
- Take regular rounds of switch boards / meter rooms / pump houses to ensure they are not flooded.
- Secure electric cables and equipment in areas likely to be flooded.
- Switch off electric supply in areas likely to be flooded, when not required.
- Trim trees with large foliage and prevent water stagnation around trees like rain tree and gulmohar with weak roots.
- Clear wild growth around buildings.
- Ensure that fire main lines are functional.
- Keep porches, approaches and stair case landings free of flood water.
- Do not drive/play in flooded areas.
- Take adequate precaution while crossing flooded roads/rail lines.