www.afterflood.in

A crowd sourced data hub for information regarding all the Do's and don'ts, waste management, personal hygiene and every other aspect which needs to be kept in mind while moving back home after the flood

Let us Return Home Safely!

Go Back During Daytime Only

- Do not return home until authorities have advised that it is safe to do so
- Ensure that the roofs and walls are not weak and doesn't have any cracks
- Take photos and videos of property damages before starting to clean your home and surrounding
- Flood Waters may have covered over wells, gutters and manholes, so drive slowly and carefully
- Ensure that the Main Switch of your home is turned off. Those who have solar and inverter installed, take precaution
- Wear gloves and footwear (Preferably Boots) at all times while cleaning **
- Go back to your home only after the flood water recedes completely \(\begin{aligned}
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- There are chances of finding snakes and other creatures inside or outside your home. Take caution 2
- Clean every nook and corner of your home, furniture and other equipment using disinfectant "

How to clean Floors

Recommended flood cleanup equipment

- 1. Gloves
- 2. Masks and other protective gear
- 3. mops, brooms etc.
- 4. Garbage bags
- 5. Unscented detergent

Step By Step Guide to Clean Floors

- 1. people have been seen to sprinkle bleaching powder to sanitize their surroundings, but merely doing this does not sterilize the area
- 2. how to prepare 1% chlorine solution: mix 6 teaspoons of bleaching powder with water to form a thick paste, to this mixture add 1 litre of water and set aside for 10 minutes till the residue settles at the bottom of the container, use the liquid to clean the floor and surroundings.
- 3. After cleaning the floor and surroundings wait 20-30 mins for the sterilization to take place, do NOT attempt to pour water during this period
- 4. After 20-30 mins have passed use a scented cleaning solution to get rid of the chlorine smell

How to clean wells

Recommended materials to have before cleaning

- 1. One pair of hand gloves
- 2. Face masks and other protective gear
- 3. Bleaching powder
- 4. Mug
- 5. Spoon or something similar to stir the bleach**
- 6. Small and big bucket
- 1. Bleaching powder available in the market tend to contain 30-40% of chlorine and a minimum of 33% is required.
- 2. Regular chlorination requires 2.5g of bleaching powder per 1000 litres. But in order to sanitize the water after being contaminated by the flood water the process of super chlorination is required. This process involves adding 5g of bleaching powder per 1000 litres.
- 3. To know the amount of water in the well, measure the diameter of the well in meters and note it as D. To measure the depth in meters, immerse the bucket till the well's deepest point and note it as H. The amount of water = 3.14 x D x D x H x 250 litre.
- 4. Follow the steps to make a bleaching solution and get the well cleaned:
 - a. Based on the amount of water present in the well, take the required amount of bleaching powder into a plastic bucket.
 - b. Add a little water and mix it till a thick paste is formed.
 - c. Fill the 3/4th of the bucket with water and mix till combined.
 - d. Leave it aside for 10 minutes.
 - e. After 10 minutes, the residue will settle at the bottom of the bucket and the water will be thoroughly super chlorinated.
 - f. Pour the Chlorinated water into the bucket used to pull water and slowly immerse the bucket till the bottom of the well
 - g. Pull and leave the rope in a pulley-lever motion to thoroughly get the chlorine water mixed with the well water.
 - h. After allowing the water to settle for an hour, you can start to use the water.

Carpets and furniture

Be careful when handling furniture

- 1. Carpets must be dried within the first two days or else they will end up with an unpleasant smell and will have to be shampooed later.
- 2. Completely soaked carpets can be discarded immediately.
- 3. To brush off the dirt from the furniture, wait for them to dry. If you try to remove the dirt before it's dry, there will be a high probability of scratches and it won't be well cleaned.
- 4. To confirm if a furniture is dry, perform the following:
 - 1. Tape som clear food wrap on the surface.
 - 2. If the covered section turns darker than the surrounding material, it is still damp.
 - 3. Dry the item for long and repeat the above steps to see if the covered section turns dark.
 - 4. If they don't turn dark, it's well dried.
- 5. For upholstered furniture, consult a professional to confirm on what can be salvaged. In the meantime, look for removable cushions that is not glued or nailed or attached to the furniture by any means and dry them separately. Do not remove upholstery.
- 6. Raise furniture on blocks and place it underneath the fan.

Handling wooden furniture with drawers and doors

- 1. Remove all items from the drawer and finally the drawer itself.
- 2. Keep the doors open and let it dry eventually.
- 3. Do not try to dry them quickly. In doing so, the wood may split and will bring more damage to the furniture in the longer run.

Pre work inspection

Open doors and windows for 30 minutes before working in the home to reduce odor levels and allow for dilution of airborne contaminants.

Basic Safety Inspection

Is there structural damage?

If YES do not enter the home until a professional has inspected it and determined it is safe.

Has your electrical system been inspected?

If NO have your electrician or KSEB inspect your service before using it. Make sure the main electrical switch is turned off. DO NOT enter an area of the home that has standing water until the power has been shut off.

If YES, but is not rated safe, DO NOT use the system. Plan on renting or buying a generator for clean-up work. Do not use open flames for lighting or heat.

Has the natural gas system been inspected?

If NO have the supply company inspect your service (cylinder, pipe) before using it. Make sure the gas line entering the home is turned off.

Do you smell natural gas?

If YES, call your supply company or distributor or police for help immediately.

Are water pipes, faucets, sinks and tubs free of holes, cracks or leaks?

If NO, turn off the water that leads to the pipe/damage. Plan on having a plumber repair the damage. Lot of free volunteer services are now available.

If YES, do not drink or use water for cooking or washing food or bathing until the water utility or public health department says that it is safe to use.

Is there standing water in the home?

If YES, decides if the water needs to be pumped out or can be mopped out. Plan to rent or buy a pump if needed. Wear boots before entering water.

Can the flood contamination be limited to certain rooms? For example, did the second floor have no water damage and no signs of mold?

If YES, it may be possible to cut off areas for use for storage. See Site Preparation for how to section off parts of the home.

Was the home built before 1978?

If yes you should assume that it has lead-based paint and should use lead safe work practices when disturbing the paint (See HUD LeadPaintSafetyFieldGuide: : http://www.hud.gov/offices/lead/training/LBPguide.pdf

Are there 8" x 8" or 9" x 9" floor tiles in the home? Is there any known asbestos in the home?

If YES, you should assume rigid floor tiles measuring 8"x 8" or 9"x 9" made before 1970 contain asbestos. Asbestos can cause cancer and other diseases. Spray the tiles with water and then carefully remove. You may also need the help of an asbestos specialist to remove these materi- als, especially if the asbestos is nonrigid (easily crumbled).

Is there damage to doors, trim, windows? Is there damage to cabinets and cabinet doors? Were the large appliances flooded?

All of these components can be saved if not replace, think about how much they are now worth and how much it will cost to restore compared to your costs to replace them. If you do not think you can remove all mold and other contaminants from building components and appliances, replacement is a better option. Do not try to preserve pressboard cabinets or hollow-core doors that have mold growth. When appliances are flooded, they can rarely be saved.

Are the toilets and sewer pipes free of holes, cracks or leaks? Do they drain well?

If NO, do not use plumbing until the plumber has fixed the plumbing

Was the heating and air conditioning system flooded or are there signs of mold?

If YES, then do not use system until a AC professional can inspect and either clean the system or replace it. Again ther are several volunteers on call.

Flood/Storm Damage Inspection

Is there an active roof leak or other damage to the house that would let water in?

IF YES, cover the roof or other damages area with a tarpaulin until it can be fixed. There must be a temporary water- and wind-tight roof before beginning storm damage repair.

Contact your insurance company immediately, but do not wait for the claims adjuster to come to the home before removing wet and moldy materials. Take photographs for insurance purposes.

Assume that building interiors are seriously contaminated with mold if:

- * If the building was wet or under water for more than 48 hours.
- * You see more mold growth than what was present before the flood.
- * You see signs of water damage or mold or smell strong mold or mildew odo

Can any of the furnishings and belongings in the home be saved?

- * In general, do not try to save moldy, porous things \(items that absorb water\).
- * The following itesm need to be thrown away when you can see or smell mold and/or the materials have been under water:
- * Carpet and carpet paddings
- * Upholstered furniture
- * Computers, microwaves, window A/C units, and other
- electronics/appliances that had fans and were housed in moldy rooms.
- * Papers and books
- * Food Items, including canned or tinned food that were in contact with flood waters.

Items that can be typically saved include:

- * Non-porous items like china, glass, jewelry, porcelain and metal
- * All wood furniture with mold-growth but otherwise in good condition
- * Some electronic and small appliances \(depends on flooding conditions\)
- * Photographs, books and valuable and important legal documents with minor levels of mold growth
- * Artwork, textiles, clothing that are not physically damaged.

If you plan to save your belongings think about how much storage space you will need. If they cannot be stored at home, make plans for moving and storage at another location. Clean all personal belongings from mold-contaminated areas before moving them to storage areas.

When deciding whether to save items, remember that it will take a lot of cleaning time to remove mold and flood contamination to make them safe for reuse. For many items without sentimental value, replacement may be better. This is especially true if items are covered by insurance.

Air out building

Before leaving the building after the inspection:

- * Open windows as long as the weather is dry.
- * Open all the windows on the lower floor that you can safely keep open. Some windows may be able to be left partially open. For safety, fix these openings by putting a screw in the window frame.
- * Open interior doors, especially closets and interior rooms, to let air reach all areas of the building. Take interior doors off their hinges if necessary to help the air flow.
- st Open the attic windows or skylights, if available, to increase ventilation.
- * DO NOT run the central air system if you have one.
- st If power is on, put a fan in a window to blow air to the outdoors. DO NOT use fans if the house is contaminated with sewage because the air movement may spread germs into other parts of the house.

BEFORE WORK BEGINS

Purchase and order tools and supplies

Make a list of all supplies that are needed, including personal protective equipment and order them ahead of time.

Plan for trash removal

Know how your community is handling the pick-up of flood-damaged debris or slush. If debris left on the curb will not be picked up, make plans to rent a dumpster or have a contractor/volunteer/government cleaners haul the waste for you.

Set up a storage area for items to be saved

If belongings will be saved, determine how much storage you need for those items. If they cannot be stored at the home, make plans for moving and storage at another location. Personal belongings that come from mold-contaminated areas must be cleaned

Set up electricity

Set up portable generators outside the home if the electrical system was flood- damaged and there is no other electrical source nearby. Indoor use of generators creates carbon monoxide hazards. If the home has electricity, hire an electrician to install one outlet box for construction, then shut off all the other electricity running through the house. You may also see if the local electric utility company can install an electric outlet box on a street pole that all the surrounding houses can use.

Set up secure tool storage area

You must keep your tools safe. If you are working out of a car, store your tools in the trunk and keep it locked. You can also bolt a strong box to the floor of the workspace. Screw carriage bolts through 2" x 4" boards running across the underside of the floor- boards. Tighten the bolt inside the box. You may also want to think about setting up a community tool storage area.

Turn off gas

Turn off gas (cylinder/pipe) until the system is inspected.

Bathroom access

You must have a working bathroom. If the bathroom in your house cannot be used and there is no public bathroom nearby rent a portable toilet or the volunteers would arrange for one. This can be shared by several neighbors. Set up a safety and cleanup area next to the toilet.

SITE PREPARATION

Set up a safety and cleanup area

Set up a safety and cleanup area outside the home that includes:

- * First aid kit
- * Fire extinguisher
- * Cleanup buckets
- * Eye wash station
- * List of emergency phone numbers
- * Drinking water

Use the cleanup area as a place to wash up before taking a break. In hot weather, take breaks every hour to avoid dehydration and heat exhaustion. Have bottled water on-site and drink it regularly. Use the area to treat minor accidents, such as cuts and punctures.

Put on your personal protection equipment (PPE)

Put on your personal protective equipment – PPE (coveralls, boots, gloves, respirators, eye protection and head protection). Have partners, if possible, help you in and out of your coveralls and help you adjust your respirators. Check to make sure the respirator is working. Cover the with your hands and at- tempt to inhale; the respirator is working if no air enters. Keep all of your PPE on when in the home.

CLEANUP STATION

- * pump
- * soap water
- * eye wash station
- * drinking water
- * dirty rinsewater
- * empty bucket
- * first aid kit
- * emergency phone numbers
- * wet hand wipes
- * pump sprayer to rinse off hands into empty bucket with clean water
- * paper towels

pump soap soap water eye wash station drinking water dirty rinsewater empty bucket first aid kit emergency phone numbers wet hand wipes pump sprayer to rinse off hands into empty bucket with clean water paper towels

CLEAN-OUT

If you are saving items, move them to the restoration area as you work.

Air out

If building has not been open most of the windows and doors and leave for at least half an hour before beginning work. Remove any drapes or curtains to allow air and light to get into the home.

Remove small furniture and objects on floor

Place small items in heavy-duty trash bags to reduce the release and spread of mold spores.

Remove large furniture

Move large furniture to the curb, vernadah or courtyard if it is dry. Use dollies or wheel barrows, if available, to lessen muscle strain. When lifting, remember to lift with your legs and not your back to avoid back injuries.

Remove appliances

Tape or tie refrigerators shut before removal to avoid spilling old food containing mold and bacteria. Make sure refrigerator doors stay tied or wired shut to keep children from playing in them.

Cut and remove wall-to-wall carpet

Remove wall-to-wall carpeting that is wet if you have one. Dry carpeting can remain on the floor as a "tarp" when you remove building materials from the walls and ceilings. The carpeting will protect the flooring under the carpet. Cut carpet in pieces before removing using a carpet cutting knife.

Clean out closets, shelves, storage areas and kitchen cabinets

Pots, dinnerware, buckets and other containers that are filed with flood waters need to be removed carefully. They may contain dangerous bacteria.

Place small items in heavy-duty trash bags to reduce the release and spread of mold spores.

GUT TEAR-OUT PROCEDURE

Many damaged homes contain valuable historic materials (such as doors, trim, stairs, etc.). These materials are usually of higher quality than what you can buy as a replacement. Try to save historic materials that are in good condition and can have the mold removed. However, remember that it may be cheaper to dispose of building parts that have been damaged by the flood or mold growth.

Remove and dispose of cabinets, shelves, doors and trim

Remove and dispose of interior doors. Pull cabinets

Bend over all protruding nails when you remove trim so as not to puncture yourself. Dispose of long boards by laying them on a piece of rope then tying them into a bundle.

Tear down drywall or plaster ceiling

If you cannot see mold growth on either side of the ceiling then the ceiling may be saved. If you plan to tear down the ceiling, work from a ladder almost as tall as ceiling. This stops the ceiling from coming down on top of you. Keep your head above the ceiling surface and push down with a crowbar.

Remove drywall from walls

Score drywall with a utility knife along the four-foot mark where the top and bottom pieces of drywall were taped together when the wall was built. Then pull out the drywall with the hook of the crowbar.

Remove drywall in the largest pieces possible to create less dust. Two people can work together to pull sheets from the wall. Once you have opened up an inside wall, push out the drywall into the next room. Remove nails and screws from studs.

Remove plaster from walls

If electricity and reciprocating saw are available, cut through plaster and lath between studs. Using pry bar, pull plaster and lath away from studs. Two people working on either end of cut laths makes this much easier. Before cutting, make sure electricity in the wall is not on.

Use the pry bar to punch through walls and pull lath and plaster down when electricity and saws are not available.

Most of the removed lath should fall on top of the removed plaster. Bundle the lath separately and remove it. Then shovel plaster into large cans for disposal in a dumpster or heavy duty bags for curbside pick up.

TEARING DOWN A PLASTER OR DRYWALL CEILING

Work from a ladder that allows you to have your head above the ceilings and at the same time be standing at least two treads from the top of the ladder. Using a crowbar, push the ceiling down from above. Have a second person with you when you do this work.

Remove insulation

Place insulation in heavy duty trash bags and dispose of it. Remove layers from floor

Remove tile, vinyl, linoleum and any remaining carpet.

If there is a sub-floor above the structural floor, remove it.

Inspect the structural floor. Remove and replace composite board or plywood partition walls to do this work, have this done by a construction professional.

ASBESTOS FLOOR TILES

Assume that rigid floor tiles measuring 8" X 8" or 9" X 9" from 1970 or before contain asbestos. Under normal conditions, these tiles should be removed by licensed asbestos workers follow- ing the regulations for asbestos projects. It is a violation to remove these tiles other than as part of an asbestos project. However, if you cannot stop from disturbing these tiles during the interior clean up, you should know that water-soaked tiles will release lower levels of asbestos than dry items.

Pre Construction cleaning and treatment

Prepare surfaces

Remove any remaining nails or screws from studs or ceiling joists. Brush ceiling, studs and exterior walls with a bristle broom or hand brush to remove all invisible insulation and pieces of drywall and loosen mold spores. Work from top to bottom.

After wood framing is thoroughly brushed or scraped, carefully vacuum all surfaces. Use a corner tool to access tight spaces.

Vacuum all surfaces

Clean everything with a high-quality vaccum cleaner and wait for one hour to let dust and spores previously in the air to settle, then reclean any remaining visible areas of mold growth following this method. In homes where studs are already fairly dry, we recommend only the dry clean- ing/HEPA vacuum step for wood studs. Wet cleaning should be skipped.

Wet clean wooden surfaces (optional)

Damp wipe with a nonphosphate detergent (e.g., Savogran® TSP- PF) and wash all remaining wood surfaces such as studs, backs of exterior walls and floors where visible mold growth cannot be removed through dry cleaning. Follow the instructions on the package for preparation. Starting at the ceiling, wipe with sponge mops and hand sponges until all visible dirt and stains are removed.

During damp wiping, use the least amount of water wood does become very wet, let it dry completely before taking the next steps. Wet surfaces that do not get fully dry may have new mold growth.

CLEANING TERMS:

Wet Cleaning:

Bleach may damage wood and some metallic surfaces and is less effective on porous surfaces like unpainted wood. On these materials, cleaning with a nonphosphate deter- gent (e.g., Savogran® TSP-PF) is recommended. Do not use detergents with trisodium phosphate (TSP). Follow manufacturer's directions for mixing the solution. Always allow surface to completely dry after washing. Brushes and sponges used for cleaning should be discarded at the end of the job.

Disinfection:

Hard, nonporous surfaces that have been in flood waters may be contaminated with bacteria. Any materials that will be kept should be disinfected. Use a solution of one cup liquid chlorine bleach to one gallon water, plus non-phosphate detergent for cleaning and disinfect- ing. Never mix bleach and ammonia. Throw away any unused bleach solution at the end of the day because it loses effectiveness with time. Never spray bleach and be sure to wear rubber gloves and eye protection.

Liquid chlorine bleach is recommended for disinfection on: refrigerators, work surfaces, garbage disposals, freezers, sinks, appliances, plastic laminate, stoves, stovetops, countertops, (ceramic) tile floors or countertops, vinyl, lino- leum, solid surface countertops, glass, garbage cans, trash cans, trash compactors, latex enamel painted woodwork and faucets. Brushes and sponges used for cleaning should be discarded at the end of the job.

THREE BUCKET CLEANING SYSTEM

- 1. Pump sprayer contains detergent (do not use sprayer for bleach)
- 2. Rinse bucket ~ should be changed frequently
- 3. Squeeze wringer bucket for dirty water
- 4. 32 oz mop head ~ clean or replace frequently

Disinfect all hard surfaces

surfaces that will remain in the home. Damp wipe all vinyl/tile floors, with liquid chlorine bleach and water bleach to one gallon of water. Never mix bleach and ammonia. row away any unused bleach solution at the end of the day because it loses effectiveness overnight.

Treat surfaces with borate solution

Measure wood surfaces for moisture content with a moisture meter. Once the moisture content is less than 15 percent, it is ready for the application of a borate solution. Wash or mist the open wall cavities with a borate solution (e.g., anti-termites) prepared to the manufacturer's directions for wood fungi. Although these products are more expensive than household bleach, borate solutions do not corrode or whiten, so are safer to use around metals and valuable wood products. Borates also soak into wood more effectively. For best coverage, apply borate solutions with a pump up tank sprayer. A paint brush, paint roller, or trigger spray bottle may also be used. is treatment has the added advantage of discouraging termite infestations.

Dry out the building

Make sure that the home is allowed to completely dry before beginning restoration. Depending on how dry the home is before the clean-up work begins, natural ventilation may produce a dry home in a couple of weeks or a few months.

If electricity is available, use fans, dehumidifiers or window air conditioners to help speed drying. Have the contractor who will restore the home check the moisture content of wood framing to be sure it is dry before beginning to close in walls or finish flooring. Wood studs or framing with less than 15 percent moisture content are considered dry. Using the applicator tube to soak the end grain of a stud The borate treatment will last many years if applied correctly. It will protect the house from mold, termites and wood rot. Many of the most important spots to treat are the hardest to reach. This is particularly true of the end- grain of structural members that butt against another structural member (for example studs against top and bottom plates). Most anti-termites supplies an injector set for a pump sprayer including a 3/32" tube for spraying into crevices, and a second tube that can be used to spray into voids accessed by drilling a 1/8" hole.

Treat remaining wood studs with fungicidal coating (optional)

Before beginning reconstruction, paint dried wooden studs and beams with a low toxicity fungicidal pro-Sealer as final treatment to prevent mold growth.

SELECTIVE TEAR OUT AND PREPARATION BEFORE RESTORATION

Clean up as you go

Every piece of moldy material you clean out can re-contaminate the work you have done. As you work, remove large objects from the building and place smaller objects in heavy-duty trash bags.

Open attic

Ventilate the attic if you plan to save a plaster or dry-ceiling in a closet.

Open crawl space

Crawl spaces must be open to air in order to dry out the house. At a minimum, create openings at available, set up a fan to blow air out of the opening running in the crawl space until it is dry. Because this space may be contaminated, wear maximum protection whenever you have to enter it.

Drywall

Drywall that has been underwater must be removed. If or mold damage is high, remove all of the drywall to the ceiling.

If there has been limited drywall may be removed to the 4 foot line. Drywall is sold in 4 foot sections. NO MOLD must be visible above the 4 foot line on both the inside and outside of the wall for this option to be safe.

Plaster walls

If plaster is sound on the walls facing the outside and there is no insulation in the wall, try to save the plaster walls. To dry out wall cavities, remove the baseboard, then remove plaster to just below the top of the baseboard.

Insulation

Dispose of insulation in heavy-duty trash bags.

Kitchen cabinets and countertops

Kitchen cabinets made of pressboard or other com- posite boards that have gotten wet cannot be saved. Cabinets, especially top cabinets, made of plywood or wooden boards may be saved. You can save the counter top and kitchen sink with work and plumbing when you replace the base cabinets.

Kitchen and bathroom Fixtures

Use a disinfectant to kill any remaining mold and other contaminants on hard surfaces that will remain in the home. Damp wipe all surfaces including tubs, bath and kitchen counter tops and vinyl/tile floors with a disinfecting solution (see Section 6).

Wood Flooring

Modern Malayalees in the hill regions take pride in their wood floors and panelling. These floors can be saved if the underside has been able to dry out. Remove all overlayment material as quickly as possible to allow the top surface to dry. Scrub and vacuum floor joists. If there is severe buckling of the flooring, make a kerf cut along the length of a floorboard to create an ex- pansion space. HEPA vacuum, then scrub floors with a wet cleaning solution to prepare for fixtures and grove wood floors.

Ceramic Flooring

Ceramic flooring laid directly onto cement/concrete slabs may require only HEPA vacuuming, and then washing with a disinfecting solution. Remove and dispose of ceramic flooring placed on plywood or presswood subflooring that is damaged.

Wood windows, doors and trim

Wet scrape all wood to be saved or scrub it with a wet abrasive sponge to remove loose paint. Assume all paint on pre-1978 house trim has lead in it. Scrub the surface with a wet cleaning solution.

REPAIRING BUCKLED TONGUE AND GROVE FLOOR

For minor buckling cut a saw kerf through the center of one board. This will create an 8th inch space that will allow the board to be screwed flat. If there is major buckling remove one floor- board in the center of the warped area. Forcethe boards on both sides tight to each other. Face- screw the boards down. Scribe the board you removed and cut off the excess on the tongue side. Face screw this board down. You'll probably need to drill pilot holes for the finish head screws or the heads will strip.

Vacuum the surface, let it dry completely, then paint with fungicidal primer. Treat doors and windows in this way:

Remove doors if they are swollen and heavily damaged. Doors in older building made from old growth lumber usually can be saved and are valu- able. Have these professionally restored.

Secure the top window sash to the window frame. Screw a metal bracket or block of wood under the top sash to hold in place. Paint the sash as part of exterior surface. Bottom sashes may need to be removed and restored before hanging against new window stop molding.

Heating and air conditioning systems

Remove and throw away all ductwork and air handling equipment that was under water. Inspect the inside and outside of air handlers and ducts that were not under water for signs of mold. Fiberglass insulation on the interior surfaces of air handlers and air supply ducts can have a lot of mold growth. Visible mold growth on air handlers can be painted with an encapsulant coating to keep it from spreading.

Inspect the interior and exterior of duct work. Any flexible ductwork that has mold growth should be replaced.

Restore Possessions

Wood furnishings

Sponge off with clean water using a soft sponge or cotton rag. Blot off all excess water with clean cloths or paper towels. Clean with a wet cleaning solution. Allow to slowly air dry. If upholstered furniture and bed frames are valuable, remove and discard all the cloth and padding, pull out all tacks and staples and then treat wood as above.

Clothing, drapery and other cloth

Clothes should generally be thrown away after flooding. If clothing and other cloth materials will be saved, remember they may contain mold or other contaminants from the flood waters. Wash clothing in a washing machine, not by hand. Add two table- spoons of liquid chlorine bleach per washer load. Dry cleaning may also be used, especially for special fab-rics such as wool and silk.

China, glass, jewelry, porcelain and metal possessions

Damp wipe these items with wet cleaning solution or wash them in a dishwasher to remove dust and superficial mold. Wash or wipe items in disinfecting solution and rinse after five minutes. Wipe dry, and be sure that they have dried completely before mov- ing them to storage. Pots, dinnerware, buckets and anything else that was withfloodwaters need to be removed carefully. They may contain dangerous bacteria.

Electric appliances

Unplug appliances and leave open to dry. Have them inspected by a competent appliance repairperson be-fore reusing.

Small valuables

Photos and papers may be frozen in zippered plastic freezer bags and stored until a professional restoration expert can recommend what to do with them. Valuable artwork can be HEPA vacuumed to remove surface mold, then wiped with damp paper towel and air dried. A tac-cloth may be used to speed drying.

Note for CLEANING VOLUNTEERS

Respiratory Protection Options

For most flood clean-up work, use a half-face negative-air respirator with HEPA filters. These respirators have canisters on the sides of your mouth to filter out dust and mold. HEPA filters are magenta coloured.

Use paper or cloth respirators labeled N95 or N100 if you plan to be in the home for short periods of time (less than 15 minutes) and will not disturb much mold. The best N95/N100 dust filters have a valve in the middle and two straps to hold the mask securely on the head.

If you plan to work in many houses with high mold and dust levels, you may want to buy a powered air purifying respirator (PAPR) that has a fan that blows filtered air into the hood. These are especially helpful if you have a beard and cannot get a tight fit from other respirators or masks. PAPR's provide the highest level of protection, but are expensive. However substitutes are available in Indian market and online (https://nowpurchase.com/search?q=mask&model[]=Dusk%20Mask).

Follow the instructions supplied with the respirator or mask carefully. Respirators and masks must t right to work correctly. Contractors must follow the rules for an OSHA respirator programme.

Eyes

Wear goggles, safety glasses with side shields or full-face shield. Sun/glare-protective lenses may be needed in some work settings.

Wear a cap with a brim to prevent dust from falling behind the glasses.

Always keep a bottle of eyewash solution (available at drugstores) on the job in case you get something in your eye.

Ears

Use earplugs/earmu s in high noise work areas where chainsaws or heavy equipment are used. At most clean-up sites, the earplugs are not needed.

Feet

Wear work boots with steel shank, toe and insole.

DO NOT wear tennis shoes or sneakers because they will not prevent punctures, bites or crush injuries.

Head

Wear overalls with a hood, a soft hat with a brim or other protective head cover.

Wear an American National Standards Institute (ANSI)-rated hardhat if there is any danger of falling debris or electrical hazards.

Hands

Use heavy, waterproof, cut-resistant gloves.

Also always wash your hands and face before eating, drinking, smoking or putting on sun screen or lip protection to limit how much mold and dust gets into your body.