



One time activity- District Hospital

Pictorial view

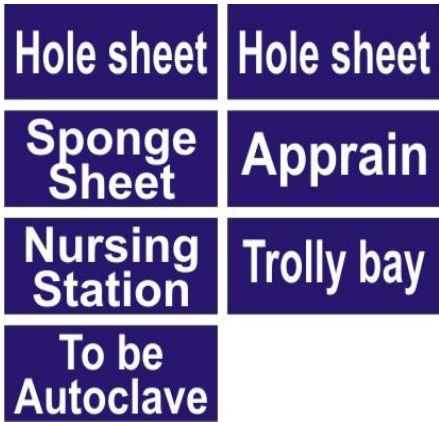


Facility Signages

Directional Signage



Instructional Signage



Promotional Signage



Disable friendly building and Construction of Ramps and railings



Disable Friendly Toilet



Ramps for Wheel Chair



Special pathways for blind



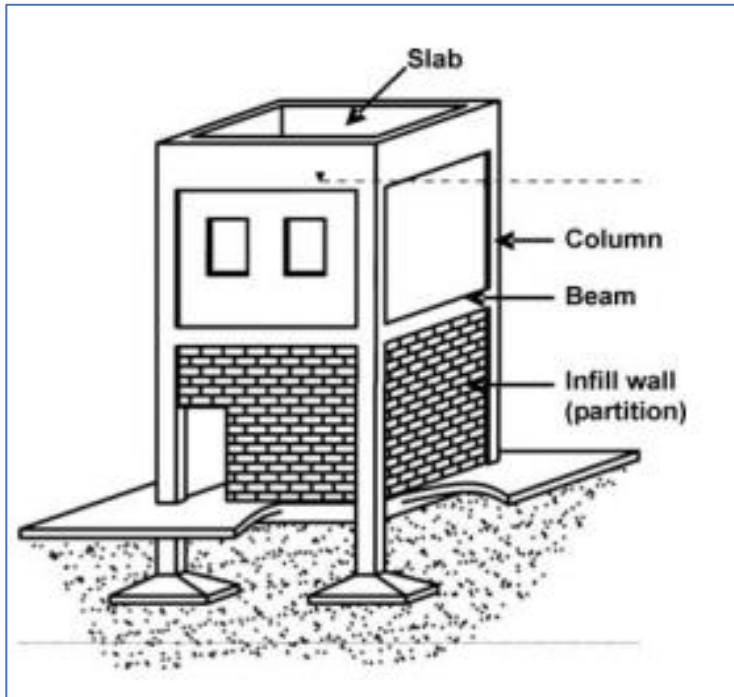
Maintenance and upkeep of the building



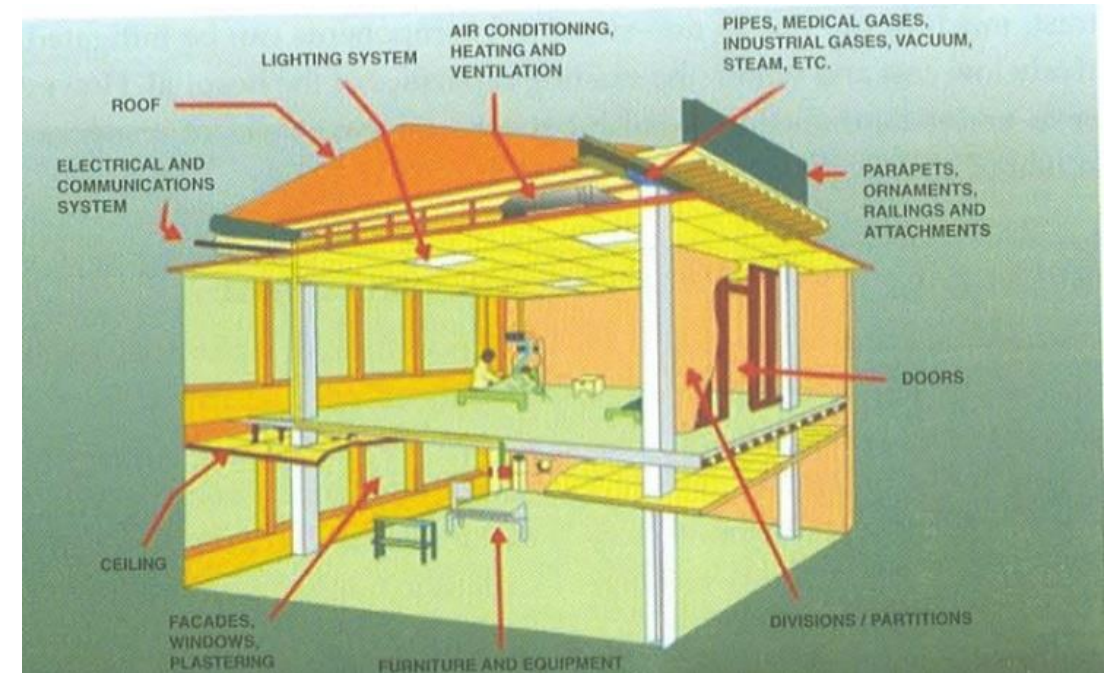
Seismic safe building

Based on the seismic safety requirement, this health facility has divided its infrastructure settings in to 2 components:

- “Structural elements” – load bearing elements that carry the weight of the building itself. Includes foundation, columns, slabs, beams, and “load-bearing” walls.
- “Non-structural elements” - do not carry the weight of the building. Includes windows, doors, chimney, stairs, infill partition walls, pipes and ducts furniture, coolers, water tanks, etc. and very importantly the various types of hospital equipment.



Structural Component



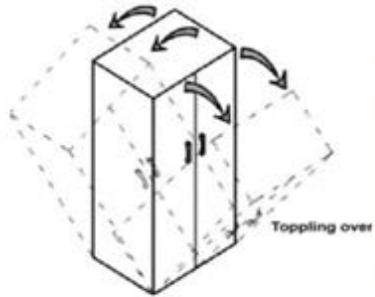
Non-Structural Component

Non-structural elements to be considered in the vulnerability assessment

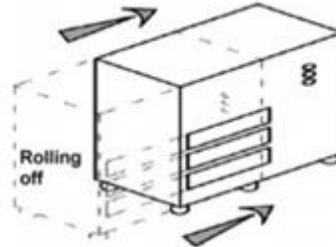
Architectural	Equipments & Furnishings	Basic Installations and Services
Divisions and partitions Interiors Facades False Ceilings Covering elements Cornices Terraces Chimneys Surfacing Glass Attachments (Signs, etc.) False Ceilings Antennas	Medical equipment Industrial equipment Office Equipment Furnishings Supplies Clinical Files Pharmacy shelving	Medical gases Electricity Telecommunications Drinking water Air conditioning Piping Waste disposal

Fixtures and furniture , heavy equipment's , hanging objects are properly fastened and secured

Earthquake Hazard Identification in the Hospital



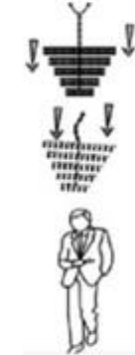
Tall or narrow furniture can fall!



Items on wheels or smooth surfaces can roll or slide



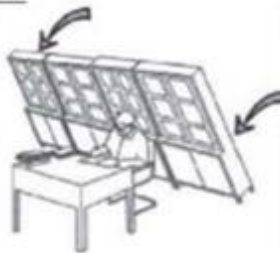
Large or small things can knock into each other!



Hanging objects can fall!



Blocking exit



Items can fall harming people and blocking exits



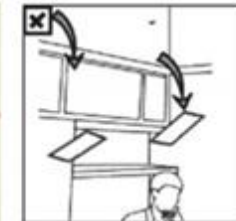
Storage cabinets next to sitting space without anchorage



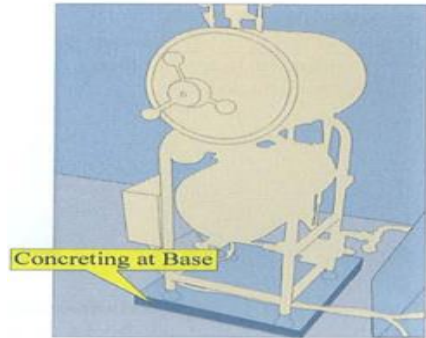
Unanchored storage cabinets in the corridor can cause obstruction during evacuation.



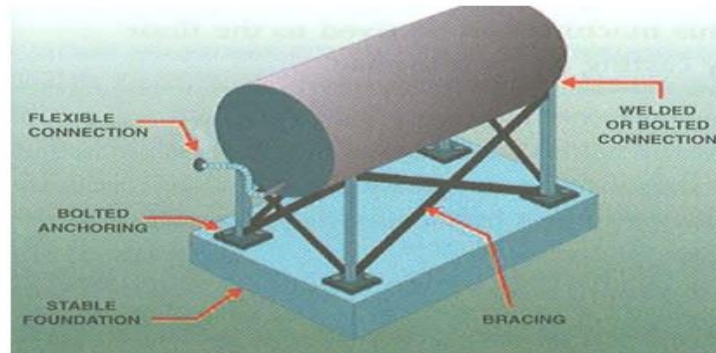
Picture frames resting on furniture fall down



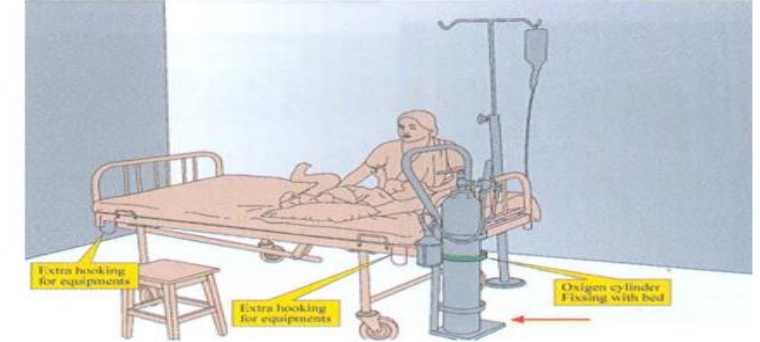
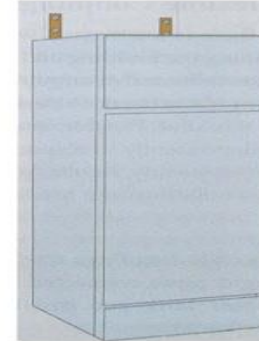
Mitigation Measures (Non-structural components)



Heavy objects: Anchor the feet of machine in concrete floor

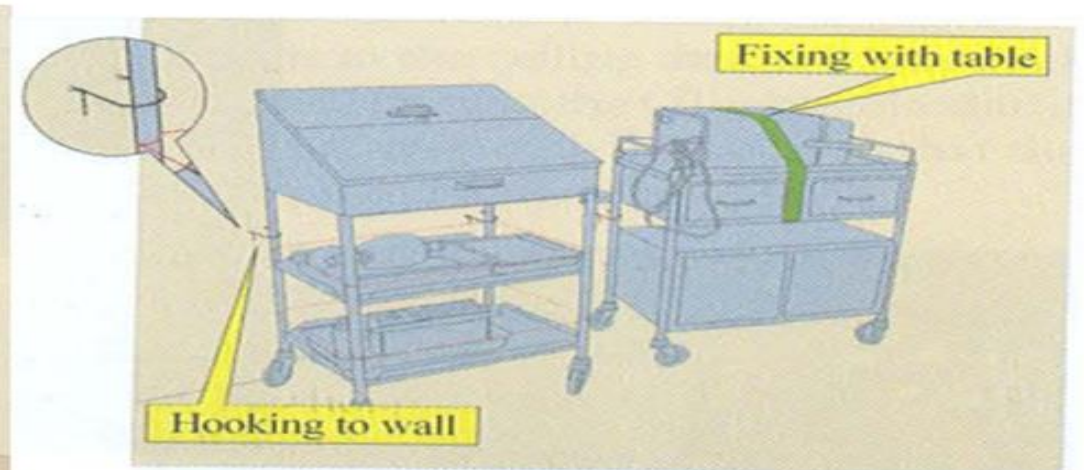
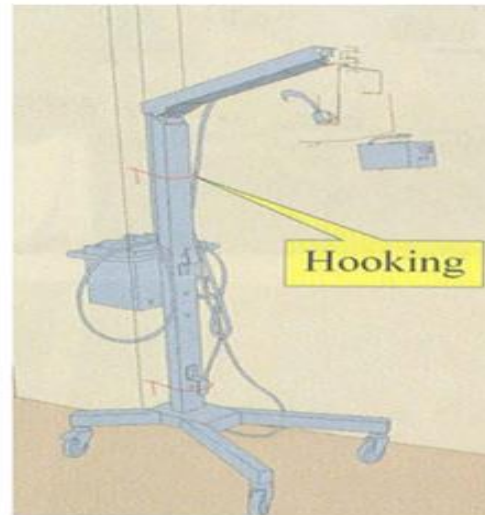
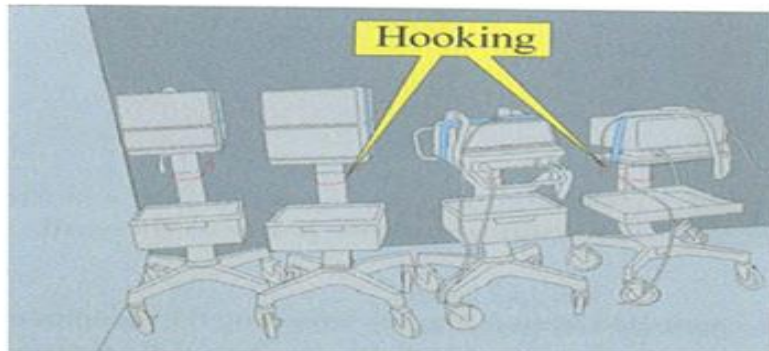


Tall & narrow objects (Cupboards, fridge and racks storing medical equipments, books, documents, medicines and chemicals pose life safety hazards: Bolting the base or wall to prevent overturning of object



Equipments and accessories needed for treatment placed near the bed (iv stand, Oxygen cylinder etc) should be secured with chains and anchor hooks on each bed

Anchorage

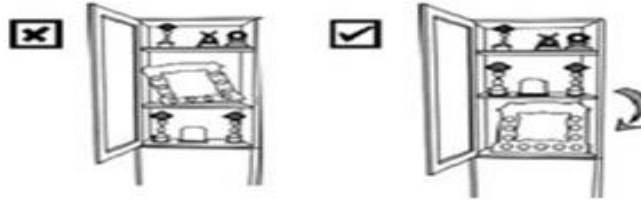


Chaining

Equipments and accessories like ECG monitors, suction apparatus, incubators, instrument trolleys, radiant warmers, resuscitation equipments kept on rollers should be secured with chains and hooks on the wall

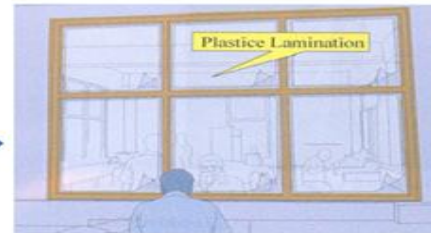
Hooking

Structural Components been made earthquake proof



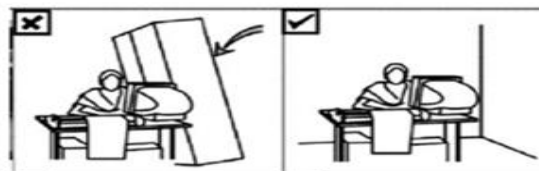
Place Heavy Items Down Low: Heavy and breakable items that cannot be secured should be kept at lower level. Lighter objects can be placed higher up

Rearrangement

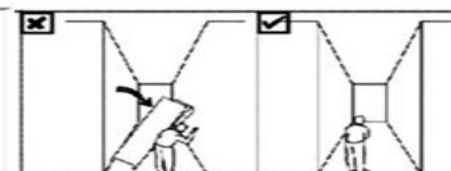


Shattering of glass: Simple plastic lamination can protect from glass splinters

Modifications



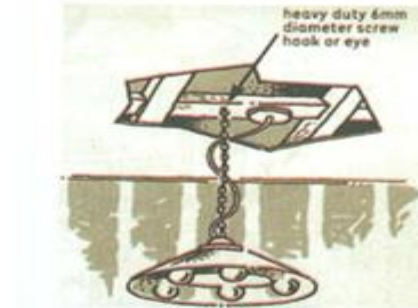
Heavy furniture should be kept away from the places where people sit



Clear Corridors, Doorways & Exit Paths



Extra Support through additional wire and heavy duty hook and eye to be given for hanging items

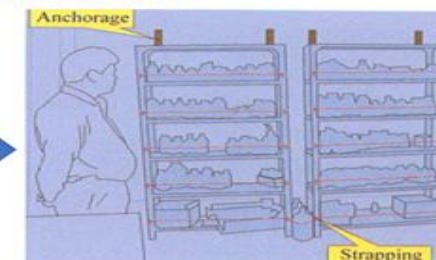


Extra support



Removal and strapping: unnecessary items to be removed and strapping of the shelves

Removal & relocation



Strapping the shelves by nylon rope for protection of supplies contents of laboratories, medical store, CSSD and OT store

Fire safety of the building- Sufficient fire exit to permit safe escape

Firefighting facility readiness



Fire Exit



Hazardous material storage (include diesel/fuel storage)



Safe Fire Stairwells



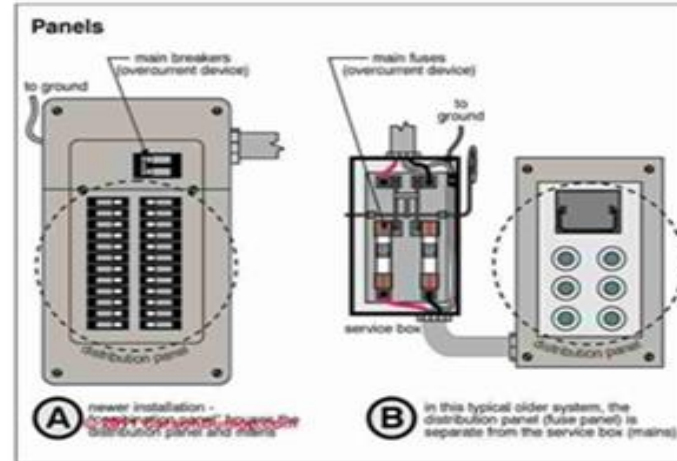
Fire exit signage's

Fire Extinguisher and automatic fire alarms are installed

Fire Equipment and Shutoffs



Water main valves and hydrants



Utility, water, gas, and electrical shutoffs



Fire Alarms



Fire extinguishers and fire suppression systems and their operation

Fire exits are clearly visible and routes to reach exit are clearly marked

Labour room has sufficient fire exit to permit safe escape to its occupant at time of fire



Check the fire exits are clearly visible and routes to reach exit are clearly marked.

A. Securing of any loose hanging wires

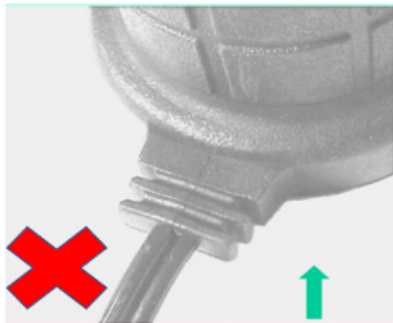
Report, tag, and do not use equipment with:

- Frayed wires or cracked insulation
- Damaged plugs or missing ground prongs



Inspections of Equipment:

Check of Strain-Relief



B. Electrical panels are covered

Instructions

Report, tag, and do not use receptacles with:

- Only two slots
- Missing cover plates
- Loose mountings
- Weak gripping force



Avoid:

- Using cheaters (three-prong adapters)
- Using extension cords
- Placing liquids on electrical equipment
- Pulling plugs out of receptacles by the cord
- Rolling equipment over power cords
- Using defective equipment or receptacles
- Using equipment that sparks, smokes, or shocks

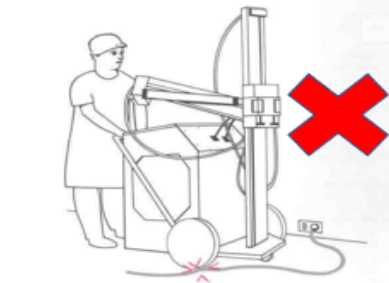


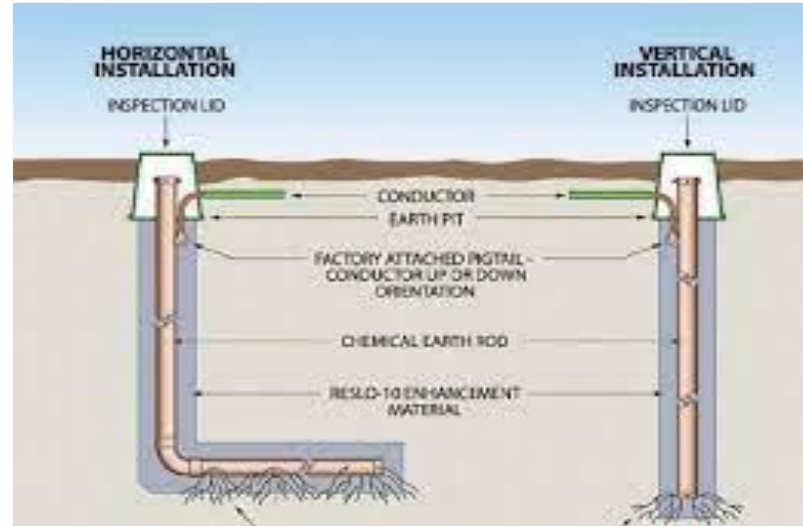
Fig. 6.4. EXTENSION CORD DAMAGED BY MACHINE



Display of danger sign at High voltage electrical installation



Out of order equipment



Earthing pit

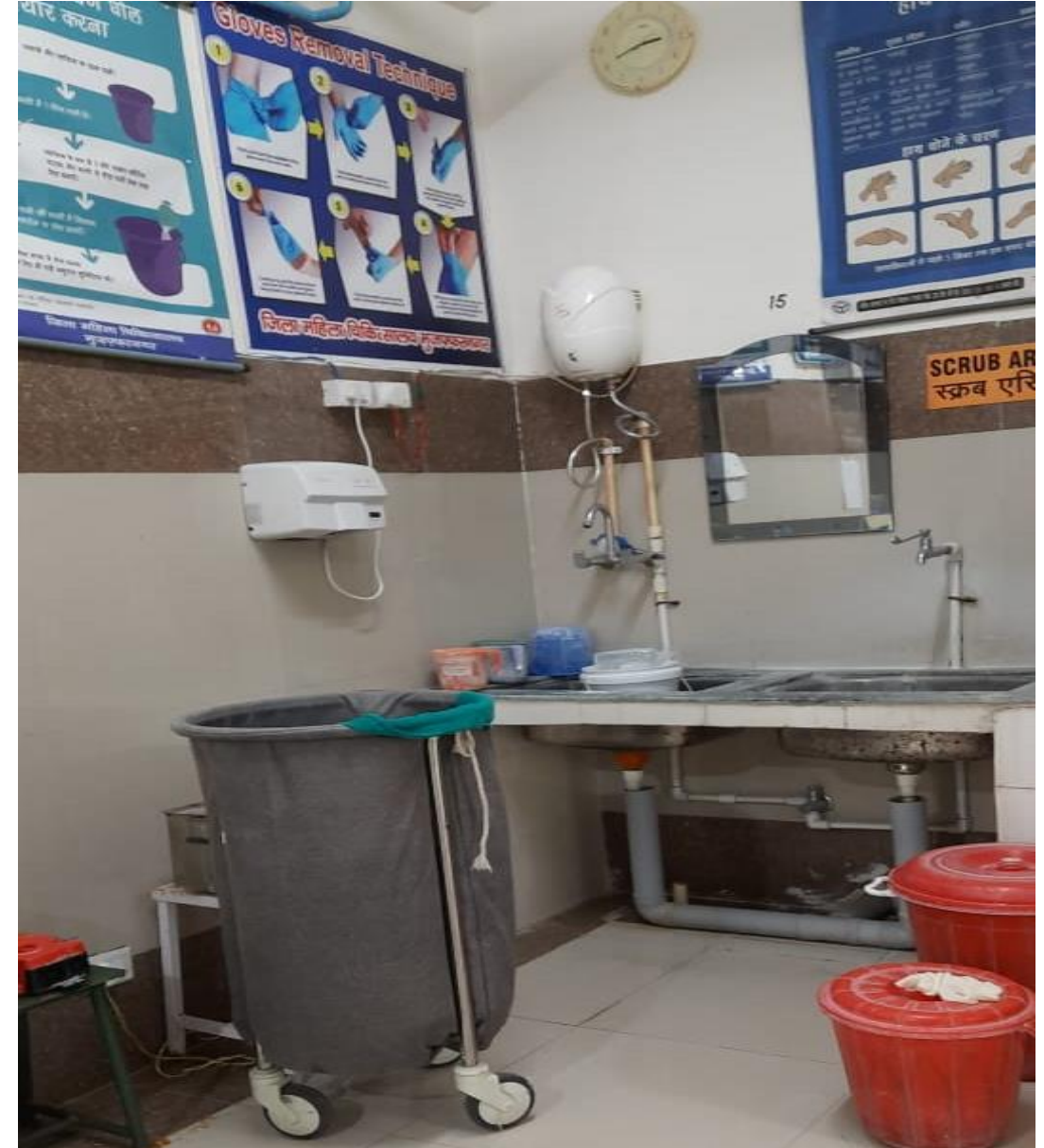


Annual inspection of electrical installations



Voltage stabilizer

Hand washing facilities



Implementation of BMW Waste rules 2019



Point of segregation BMW Segregation



Storage and mapping and Bar coding



Transportation



Separate BMW Storage with Handwashing Facility



Patient calling system (OPD and IPD)



Shaded Waiting area



TV for health promotion



Potable water and Temperature control and ventilation



RO with water cooler



AC and Exhaust Fans for ventilation for Normal area



Laminar Flow for OT

Pest, rodent and animal Control



Pest and Rodent Control

High Boundary wall



Animal control



Separate mechanized laundry system



Disinfection of liquid waste before disposal



Construction of parking area for staff parking, ambulance parking, patient parking



Separate medical record department esp. for Patients clinical Records



Storage, inventory and dispensing of drugs



THANK YOU