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Addis Ababa City Administration Fire and Disaster Risk Management Commission

**Addis Ababa City Administration Disaster Prevention, audit, Inspection and
Qualification System Directive No. 163/2024**

October /2024,

Addis Ababa

Ethiopia

**Directive
No
163/2024**

Addis Ababa City Administration Disaster Prevention, audit, Inspection and Qualification System Directive No. 163/2024

To ensure the safety of the lives and property of residents of Addis Ababa City Administration, as well as governmental and non-governmental institutions, from all threats and to create a safe working and living environment;

Establishing a system of responsibility and accountability to strengthen the working ties and relations with institutions in an orderly manner and create favorable conditions for monitoring performance conditions;

Wherefore it is necessary to establish a clear, efficient and effective system of procedures to monitor the detailed implementation and procedures of governmental and non-governmental institutions in Addis Ababa City Administration;

In accordance with Article 84 (2) (e) of the Addis Ababa City Administration Redefining the Powers and Duties of the Executive Organs of Proclamation No. 16/2022 and Article 25 of the Addis Ababa City Administration Disaster Risk Safety Regulation No. 132/2022, the Commission issued this directive.

Part One

General provisions

1. Brief Title

This directive can be referred as “**Addis Ababa City Administration Disaster Prevention, audit, Inspection and Qualification System Directive No. 163/2017**”.

2. Definition

In these directives, unless the context otherwise provides:

- 1) “City”:- means Addis Ababa City Administration.
- 2) “Prevention”:- means taking precaution measures to avoid unforced in disaster that can cause damage to any life and property.
- 3) “Health care institution”:- means hospitals, clinics, delivery centers, children home, elders home that can provide medical or other care for persons with health problems.
- 4) “Prison house”:- means an institution where based on court decision persons to be corrected are sent to serve the imprisonment penalty sentence.
- 5) “Residence house”:- means buildings to be used as residence for a family having one or more than one rooms designed or planned to give all kinds of services.
- 6) “Trade centers”:- means buildings or structure used to stock different goods, commodities, retail items show or sale.
- 7) “Market Center”:- means trading buildings that include market malls, supermarket, market centers, used items sale, external marketing, restaurants, governmental/private/dry and fast food items sale, pharmacies, iron made items or construction materials supply, show rooms, tender or bid rooms, micro and trading works building, offices related to commodities sale, warehouse and service giving and similar buildings located areas.
- 8) “Industry”:- means factories that can produce all kinds of and all character products including without limit product processing assembling and repairing, mixing, packaging, finishing or decorating, repair and maintenance performing institutions.
- 9) “Mixed service building”:- means services performance in one building with two or more different work sectors.

- 10) “Building disaster”: means disaster that occur on buildings due to their structure exposed to accident or disaster that expose the building users to life and property disaster, start of fire and distribution, creation of smock (gases), explosion or other manmade and natural disaster.
- 11) “Type one construction”: means construction type having construction content in a manner that fire will be tolerated by the building wall at least for 4 hours, roof for 2 hours and floor at least for 3 hours protecting and tolerating expansion of the fire and the building will not be demolished due to fire disaster.
- 12) “Type two constructions”: means a type of construction done by construction materials that the building roof and floor tolerate fire for two hours and the wall for 3 hours.
- 13) “Type three constructions”: means a type of construction done by use of construction materials that can tolerate fire for some time, wall at least for 2 hours, roof and floor at least for 1 hour.
- 14) “Educational institution”:- means buildings used for education service for 6 or more persons for educational objective.
- 15) The words and phrases given in Regulation No. 132/2014 also apply to this directive.

3. Scope of Applicability

This directive applies to a facility in Addis Ababa city administration and constructed buildings, under construction, and will be built in the future.

Part Two

Safety requirements

4. Printing Enterprises

- 1) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 2) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 3) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 4) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 5) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 6) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 7) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 8) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 9) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 10) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 11) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 12) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.

- 13) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 14) The building shall have adequate car park outside or inside of the building considering number of users/customers.
- 15) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 16) For wheel chair users ramp shall be fitted.
- 17) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 21) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 22) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 23) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 24) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 25) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 26) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.

- 27) Emergency service giving institutions phone numbers shall be posted at visible place.
- 28) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 29) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 30) On any building thunder prevention shall be fitted.
- 31) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 32) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.
- 33) Passage way shall be not less than one meter available in side of printing room.
- 34) Combustible printing items that can be a cause for ignition of fire disaster based on their nature and level of Combustibility shall be identified and by having high precaution stoking shall be done.

5. Fuel depot safety requirement

- 1) Fuel depot above the ground having capacity to hold 200,000 liter and above to prevent fuel link during unloading process automatic controller shall be fitted.
- 2) The fuel tanker outside part shall be completely covered by fiber glass or similar corrosion prevention paint.
- 3) Fuel tankers can be done below ground at a depth not less than 1 meter, not less than 6mm thickness, iron sheet tested by 0.4 bar pressure, pipes connecting with the tanker free from any linkage and stainless without corrosion.
- 4) Fuel tank depot shall be 50 meters distance from terrestrial and ground water source and the thickness of the water tank cover concert shall be more than 20 cm and the tankers shall be prepared to be fixable with land by screw.
- 5) The fuel depot at least shall have 150-200 metric cube holding capacity to fight fire for at least two hours with foam mix, foam monitor that can reach up to 50-60 meter distance, 1 piece 50 KG dry powder and additionally fire cooler with water sprinkler system shall be prepared.

- 6) At a place having two and more than two fuel tankers to preserve environmentally friendly conditions around unloading and loading concert built sewerage controller and collection shall be prepared, and ensured two times a year that it has no negative impact on the environment and if so it shall be removed.
- 7) The fuel tankers having 3 meters height shall be at 30 meters distance from the sand lime brick or stone fence and at the entrance gate area evacuation plan shall be prepared.
- 8) The fuel depot company and fire disaster risk management commission shall have mutual mock drill practice once a year.
- 9) The fuel depot company every year obtain competency verification certificate shall take by fulfilling the criteria required the competency verification certificate and renew every year.
- 10) The fuel amount in the fuel tanker shall be measured every day and if there is shortage of fuel observed there shall be urgent correction measure taken.
- 11) It will need to prepare an adequate foam stock with the fire pump to form the basis of its flammability behavior
- 12) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 13) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 14) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 15) In order to provide first aid service for injured person during disaster there shall be complete first aid kit..
- 16) For wheel chair users ramp shall be fitted.
- 17) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 18) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 19) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 20) If the building is two or above the building category:

- a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 21) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
 - 22) In every work place in company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
 - 23) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
 - 24) Emergency service giving institutions phone numbers shall be posted at visible place.
 - 25) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
 - 26) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
 - 27) On any building thunder prevention shall be fitted.
 - 28) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
 - 29) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

6. fuel station safety requirements

- 1) Fuel station place, fuel unloading and vehicle wash areas each shall fulfill one peace 9 liter foam fire extinguisher equipment.
- 2) If the fuel stations are constructed attached to a building the distance between the fuel tanker and the building shall not be less than 1.5 meter.
- 3) Fuel evaporation proof line shall be done 5 meters above ground, at least 10 meter distance from the building at least not less than 8 meter distance from windows, doors, building wall, and fuel pump.
- 4) Fuel station constructed at the residence area the fuel station fence shall have at least 5 meters distance from the resident.

- 5) Residents around the fuel station shall be given a awareness to have precaution not to cause fire and other disaster and control shall be made that periodically performed works at fuel station will not cause fire disaster.
- 6) Different Fuel product; such as oils, lubricant distribution work performing buildings construction shall at least have fire tolerance capacity for 30 minute.
- 7) Fuel products distribution work performed contact with fire shall be more than one meter from other fire source.
- 8) It is forbidden to carry fuel from place to place due to various small items, operating a vehicle engine, pumping fuel with a passenger load of public transport vehicles, and using items that are products of plastic production;
- 9) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 10) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 11) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 12) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 13) For wheel chair users ramp shall be fitted.
- 14) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 15) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 16) The company/ the building resident workers, the building user's personal personal protective equipment shall be fulfilled in adequate condition.
- 17) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;

- 18) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 19) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 20) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 21) Emergency service giving institutions phone numbers shall be posted at visible place.
- 22) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 23) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 24) On any building thunder prevention shall be fitted.
- 25) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 26) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

7. fuel transport vehicles safety requirements

- 1) Authorized fuel loading vehicle shall fulfill vehicle motor, to extinguish fire accident on remorke and shelto, portable fire extinguisher shall be fixe on appropriate weight and type.
- 2) Authorized fuel loading vehicle is strictly prohibited to stop outside of fuel station/ depot, lick fuel, allow drivers other than those permitted to drive this kind vehicle regularly, loading other materials other than allowed person or item and use of bobblin and nilen clothing that can be a reason for creation of instant electric.
- 3) Authorized fuel loading vehicle shall not stop without permitted area away from road, main road, junction and from factory and any flammable items unless keeping 8 meter distance , not allowed to park a car at least distance less than 15 meters from any building.
- 4) All fuel company fuel loading vehicles shall prepare salvage pump.
- 5) Authorized fuel loading vehicle should have international standard safety sign having width or height not less than 275 mm and the boldly prepared shall be posted.

- 6) fuel loading vehicle not to increase fuel evaporation quantity due to movement and heat based on permitted by law the necessary shall be performed.
- 7) At a place of fuel unloading bonding ground cable shall be prepared.
- 8) To ensure vehicle fire safety, drivers should undergo fire prevention and control training..
- 9) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 10) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 11) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 12) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 13) Emergency call numbers should be posted on the car

8. LPG (light petroleum gas) Depot

- 1) Small gas depot tankers having capacity below 135 metric ton shall be prepared having not less than 30 meter distance from the main fence and having free road around 5 meters distance outside of the fence and with appropriate fire extinguisher items.
- 2) Medium gas depot having 135-265 metric ton holding capacity shall be fenced around by sand lime brick at a distance not less than 37 meters from the tanks.
- 3) Big gas depot having more than 265 metric ton holding capacity shall be fenced around 60 meter distance and other stated safety criteria on small and medium depot shall be fulfilled.
- 4) Gas depot installation and maintenance shall be performed in a manner protected from disaster or accident by professional having work license in the sector and adequate knowledge.
- 5) Maintenance of LPG containers is to be performed on schedule and by burning to dispose the gas inside it shall be notified to the commission in advance and fire accident control vehicle shall be available at the area.
- 6) In order to undertake LPG container adjustment and periodic maintenance work companies having the commission renewed competency verification certificate shall have obligation to use them.

- 7) Considering the gas rapid flammability character on selection of tanker installation site any work departments/ types having relation with fire shall keep adequate distance and there shall be prepared for giving pre-disaster response.
- 8) The distance of gas storage tank installation from different facilities and locations shall be in accordance with Annex Table Number One attached to this directive;
- 9) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 10) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 11) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 12) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 13) For wheel chair users ramp shall be fitted.
- 14) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 15) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 16) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 17) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 18) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 19) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared

- 20) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 21) Emergency service giving institutions phone numbers shall be posted at visible place.
- 22) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 23) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 24) On any building thunder prevention shall be fitted.
- 25) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 26) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

9. LPG (light petroleum gas) distribution site

- 1) At gas distribution site in any condition pouring from gas cylinder to other gas cylinder/ filling/ is prohibited.
- 2) The gas distribution room construction shall be above ground and only uses for adequately the planned purpose; it aerated from all directions.
- 3) LPG holding cylinder whether it is empty or full during transport and stoking room keeping time shall be kept in standing position.
- 4) At the area cylinders are placed the cylinders shall not be exposed to heat more than 50°C.
- 5) At gas keeping area making any kind of open fire, using and smoking cigarette is prohibited.
- 6) Small scale **LPG** container cylinder shall be in accordance with Annex Table Nos. Two and Three of this directive regarding the distance to be maintained from different directions and the fire extinguishing equipment required for **LPG** fire control operation;
- 7) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 8) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available

- 9) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 10) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 11) For wheel chair users ramp shall be fitted.
- 12) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
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- 15) If the building is two or above the building category:
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- 21) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 22) On any building thunder prevention shall be fitted.
- 23) An emergency assembly area shall be set up that takes into account the size of the consumer and the building

24) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

10. Business centers and market malls

- 1) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 2) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 3) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 4) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 5) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 6) The buildings fitted or steps shall be constructed by concretes and the height of the building is more than 9 meter there shall be additional disaster time use stair case fitted.
- 7) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 8) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 9) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 10) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 11) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 12) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 13) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 14) The building shall have adequate car park outside or inside of the building considering number of users/customers.

- 15) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 16) For wheel chair users ramp shall be fitted.
- 17) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 21) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 22) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 23) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 24) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 25) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 26) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 27) Emergency service giving institutions phone numbers shall be posted at visible place.
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- 29) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 30) On any building thunder prevention shall be fitted.
- 31) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 32) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.
- 33) The construction shall be carried out at 50 meter distance from residential areas.
- 34) Different work nature or not related with the trading work shall not be done at similar time.
- 35) Between shops not less than 1 meter corridor shall be prepared and indicated by use of safely marks.

11. Hazardous chemicals and Mixtures Safety Protection Standards

- 1) It is absolutely forbidden to store chemicals that can easily pollute the environment in homes, hospitals, educational institutions, office buildings, market places and halls.
- 2) Chemical storage warehouses should be built with concrete and have sufficient air circulation so that they can withstand fire for more than 2 hours and do not collapse easily due to chemical explosion.
- 3) It is prohibited to store, use and transport different chemicals without obtaining permission from the concerned body.
- 4) The storage, handling and use of hazardous chemicals should be carried out in accordance with internationally accepted procedures, unless special conditions or special permits and standards are given.
- 5) Any chemical that enters to the production room shall be measured only as much as is sufficient for daily work.

- 6) Cellulose nitrate plastic (pyroxylin) shall be stored in a separate room at a distance of more than 1 meter from steam pipes, radiators, chimneys, stoves, lights, extractors, flame, fire or electric or similar ignition devices.
- 7) Workers working in a factory using cellulose nitrate plastic should be at least 1 meter away, and the amount of chemical given to one worker should not exceed half a day's worth.
- 8) Hazardous sludge chemicals such as metal filings, scraps, dust, etc, any unwanted cellulose nitrate treated steel tanks shall be stored in non-hazardous areas until they are removed from the premises.
- 9) Inflammable liquids and solid chemicals that combine to cause sudden explosions or generate heat and cause a fire need to be stored in a concrete room.
- 10) The storage and use of hazardous chemicals in residential buildings and office buildings is strictly prohibited.
- 11) The doors of the chemical storage warehouse shall be opened by pushing it outwards or by sliding it sideways and fire resistant for 2 hours.
- 12) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 13) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 14) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 15) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 16) For wheel chair users ramp shall be fitted.
- 17) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.

- 18) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 19) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 20) If the building is two or above the building category:
 - b. An alternative power generator should be developed;
 - c. must have a device that provides emergency light without interruption for at least 30 minutes;
- 21) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 22) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 23) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 24) Emergency service giving institutions phone numbers shall be posted at visible place.
- 25) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 26) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 27) On any building thunder prevention shall be fitted.
- 28) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 29) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

12. Safety Standards That Must Be Met And Implemented In Warehouses

- 1) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.

- 2) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 3) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 4) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 5) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 6) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 7) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 8) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 9) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 10) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 11) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 12) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 13) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 14) The building shall have adequate car park outside or inside of the building considering number of users/customers.
- 15) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 16) For wheel chair users ramp shall be fitted.

- 17) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 21) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 22) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 23) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 24) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 25) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 26) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 27) Emergency service giving institutions phone numbers shall be posted at visible place.
- 28) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 29) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 30) On any building thunder prevention shall be fitted.

- 31)** An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 32)** In any storage warehouse, they should be arranged at a distance of 1 meter from the ceiling, half a meter from the wall, and 1 meter between each stack as per their type and their flammability characteristics.
- 33)** Considering the size of the storage warehouse and the combustibility of the goods, it should be built with two or more doors in different directions, at least 50 meters away from residential areas, garages and various organizations, and be made of stone, clay, sand lime bricks or concrete that can withstand fire for a certain period of time.
- 34)** Emergency exit doors that open when pushed from the inside or swing to the side, have a perimeter, the exterior floor is level with the floor of the house, and must be marked with an emergency exit sign with reflective text or a graphic description.
- 35)** Accidents should be prevented by cleaning any dust or other things that may cause fire hazard in the warehouse, especially around the inner wall and ceiling.
- 36)** The roof structure of the warehouse shall be at least 120 cm in height, and ventilation lines in the form of windows should be prepared at every 23 meters around the wall and the construction material can withstand fire for 30 minutes.
- 37)** Magnesium powder shall be stored in metal drums or other closed containers, and the containers should be tightly sealed and stored in a dry place.
- 38)** Flammable liquids shall be separated as per their flammability characteristics and must be stored with a written/graphical/description on the container.
- 39)** Flammable liquids shall not be stored near stairways or near doors that normally serve as entrances and exits when they are prepared in portable containers.
- 40)** Any liquid containers to be stored shall be kept upright and no more than 113 liter drums/containers should be stacked on top of each other.
- 41)** The items to be placed on the shelves should be built in such a way that the shelves are deep enough and the containers visible in the shelves cannot easily leave their place.

- 42) Equipment containing leaking fuel and flammable chemicals shall be kept away from open flames and cleaned immediately.
- 43) The aisle of the warehouse should be at least 2.4 meters wide or wide enough to pass a vehicle forklift.
- 44) If flammable liquids are stored on shelves, there should be a passage of at least 1.2 meters between adjacent shelves.
- 45) Due to climate change, it is necessary to take proper care so that the chemical stock does not cause danger and to stay away from anything more than 15-18 meters away from it and to be free from non authorized person and animals.
- 46) After disinfecting warehouses with pesticides and other chemicals, it shall be ensured that the sprayed chemical vapor does not cause harm to people in order to allow people to enter the warehouse.
- 47) No fire-related work should be carried out in the surrounding area while any pesticide spraying is done by a professional.

13. Safety Standards for Theatres, Cinemas, Exhibitions, Meeting room And Concert Halls

- 1) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 2) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 3) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 4) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 5) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 6) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 7) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.

- 8) If the height of the building is more than 3 floors there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 9) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minutes, smoke proofed and self closing.
- 10) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 months by accredited organ.
- 11) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 12) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 13) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 14) The building shall have adequate car park outside or inside of the building considering number of users/customers.
- 15) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 16) For wheel chair users ramp shall be fitted.
- 17) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M² regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meters distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 21) If the building is two or above the building category:
 - a. An alternative power generator should be developed;

- b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 22) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
 - 23) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
 - 24) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
 - 25) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
 - 26) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
 - 27) Emergency service giving institutions phone numbers shall be posted at visible place.
 - 28) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
 - 29) By preparing emergency response plan shall be informed to residents, workers,. and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
 - 30) On any building thunder prevention shall be fitted.
 - 31) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
 - 32) The arrangement and arrangement of goods should be properly distinguished, both flammable and non-flammable.
 - 33) A building to be built for performances, cinemas, exhibitions, meeting places and music halls:
 - A. The height of which is not less than 4-6 meters, except that it can withstand fire for more than 1 hour and the wall of the house varies in step by step height
 - B. equipped with an automatic air balancing/adjustment system and
 - C. The ceiling must be soundproof and can withstand fire for at least 30 minutes;
 - 34) Items on display at exhibition centers must have maintained safety standards when sorting/placed;

- 35) Interim exhibitions are responsible for obtaining temporary permits a week prior to the exhibition day and ensuring the safety of the audience until the end of the show.
- 36) Curtains and floor mats installed on the stage and behind the stage must be fire resistant for at least 30 minutes.
- 37) Theatre, cinema, meeting and performance hall seats:
- a. the width of which is not less than 450 mm in height, not less than 550 mm;
 - b. the gap between each array not less than 360 mm;
 - c. The number extending from one end to another is 14 and not exceeding 7 if it is a one-way passage;
 - d. If they are 15-18 in rows, the gap between each array is not less than 400 mm;
 - e. If you are 19-35 in rows, there should be a gap between each array not less than 450 mm and a gap of not less than 1 meter between 14 chairs;
 - f. If it is 36-45 in rows, the gap between each array should be not less than 500 mm and there should be a gap of 1m between every 14 chairs and there should be a passage in two places for 1m wide;
 - g. If there are 46-100 in rows, not less than 550 mm in the middle of each array, a 1-meter-wide aisle shall be provided between each 14 chairs;
 - h. If more than 100 arrays are to be prepared per row, it must be determined by experts;

14. Industry and Industry-Related Organization Safety Standard

- 1) At least one pillar fire hydrant with complete equipment shall be provided in the factory premises and at a distance of 50 meters depending on the size of the factory.
- 2) No raw material or product should be stored in the production room except for the production work required by the industry for the day.
- 3) In the industry, raw material or partially or fully finished product must be disposed of in a safe working environment before being placed on the market.
- 4) Furniture and wood planks should be within the fence area of 1.8-2 meters high in the building or the stock is from the building.

- 5) When timber is stored in the lumber room, the height of the stack should not exceed 3 meters so as not to cause injury to people working in the area.
- 6) The wood bark, shavings, sawdust shall be removed daily and if it is removed by burning, it shall be done in a place prepared for this work after meeting the necessary pre conditions in the area.
- 7) Any industry shall have an additional extension of not more than 6 meters at the last another exit of the emergency exit.
- 8) In high industries such as aircraft assembly, high metal products manufacturing, high level workshops, underground floors must meet the following in terms of exit routes during non-residential time:
 - A. In an industrial building, the distance to the exit door is in not more than 90 meters, the workplace is single-storey and automatic sprinklers for fire control must be installed.
 - B. Industrial building workshops should have at least two doors.
 - C. The number of users shall not be more than 25 people and the distance from any point above the ground or in the nearby floor to the door in the outer wall for an industrial building classified as category 2 is not more than 15 meters and an exit line is required.
 - D. If the number of people in an industrial building is more than 100 or the space above or below the stairs is more than 25 people, each floor exit and elevator access area must be equipped with an emergency alarm.
 - E. The special attention shall be paid to the fire related equipment in the industry such compressors, stoves, ovens, dryers and etc and it shall be installed with high fire resistant items.
- 9) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 10) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 11) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.

- 12) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 13) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 14) The buildings fitted or steps shall be constructed by concretes and the height of the building is more than 9 meter there shall be additional disaster time use stair case fitted.
- 15) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 16) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 17) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 18) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 19) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 20) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 21) In order to provide first aid service for injured person during disaster there shall be complete first aid kit..
- 22) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 23) For wheel chair users ramp shall be fitted.
- 24) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M² regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 25) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.

- 26) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 27) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 28) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 29) If the building category is 02 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 30) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 31) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 32) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 33) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 34) Emergency service giving institutions phone numbers shall be posted at visible place.
- 35) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 36) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 37) On any building thunder prevention shall be fitted.
- 38) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 39) The arrangement and arrangement of goods should be properly distinguished, both flammable and non-flammable.

15. Explosives, Ammunition, Sparklers And Similar Devices, Storage, Display And Shooting Area Safety Requirements

- 1) The use, handling, storage, transportation and production of explosives and explosives-related materials and their disposal after use must be done in accordance with the laws of the country.
- 2) 15 meters around the warehouses should be kept free of any objects, no accumulation of property, no traffic movement and no fire-causing objects, and the area should be maintained carefully.
- 3) The products of the sector must not be opened when entering or leaving the warehouse, except when visited by an authorized person.
- 4) Except for man-made heat and light to be kept in the storage warehouses by experts, no outside light shall enter and no heat should be created.
- 5) The explosive must not be stored in the same warehouse for detonation and sterilization.
- 6) Explosives shall not be repackaged in warehouses within 50 meters or other explosives in close proximity. An opened package of explosives must be carefully closed before returning.
- 7) The floor of warehouses should not be designed and built beyond the weight of the material in the warehouse.
- 8) In the warehouse there shall be sufficient air circulation is needed to protect unnecessary heat and moisture
- 9) Explosives shall be reported to the relevant authority 24 hours before they are used for the required services.
- 10) Before detonation or sterilization work, human and animal contact, as well as away from explosives, mobile radio communication is not used in the 107 meter range, the process shall be assisted by a professional, It shall be 2.5 km away from short wave radio transmission and it shall be considered that it will not cause damage to other infrastructures and due care should be taken.
- 11) Devices used to open explosive packages must be of the non-sparking type.

- 12) Any vehicle that transports explosive materials shall be equipped with sufficient fire extinguishers and arrange the devices in a manner that allows them to be easily used. It should be clearly marked with a reflective picture/text/indication of the presence of dangerous and explosive materials on both sides of the vehicle. If two or more vehicles are traveling in the same direction, there must be a distance of not less than one hundred meters between them.
- 13) When a vehicle carrying such cargo is operated at any time in a residential area, in a densely populated area, maximum control shall be exercised, and an unlicensed person shall under no circumstances be allowed to travel together;
- 14) The legal location of fireworks should be 33 meters or more away from people in the area and directly into the sky. An emergency vehicle with adequate personnel should be stationed at the venue by intimation to the Commission office at the venue in advance.
- 15) Unexploded fireworks must be disposed of in an appropriate manner following the completion of the exhibition.
- 16) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 17) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 18) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 19) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 20) For wheel chair users ramp shall be fitted.
- 21) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 22) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 23) The company/ the building resident workers, the building user's personal personal protective equipment shall be fulfilled in adequate condition.

- 24) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 25) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 26) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 27) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 28) Emergency service giving institutions phone numbers shall be posted at visible place.
- 29) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 30) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 31) On any building thunder prevention shall be fitted.
- 32) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 33) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

16. High-level hotels safety criteria requirements

- 1) Sufficient water storage of not less than 150 cubic meters for fire control, a fire pump capable of pushing 2000-2500 liters of water per minute and the water pressure at each fire point should be at least 10 bar.
- 2) The distance from the exit direction in case of emergency shall not be more than 30 meters, there should be a smoke-proof door that can resist fire for 30 minutes, and a fire alarm should be installed in each corridor to alert people in case of emergency.

- 3) A computerized control panel system (control panel board) for the entire hotel should be set up at a central location.
- 4) LPG cylinders should be kept out of the cooking area and equipped with a suitable fire extinguisher and a gas sensor to indicate the presence of gas linkage.
- 5) In accordance with the nature and combustibility level of the facility, there should be a fire hydrant installed in an area of 40,000 square meters.
- 6) An automatic sprinkler system should be installed in each guest room and corridor, reception area.
- 7) A public addressable speaker device should be prepared in guest rooms, corridors, and offices to give information to guests and employees.
- 8) A ramp should be installed for wheelchair users. In addition, a wheelchair or Evac-chair should be prepared for the use of the disabled and the customers who need help in case of emergency.
- 9) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 10) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 11) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 12) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 13) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 14) The buildings fitted or steps shall be constructed by concretes and the height of the building is more than 9 meter there shall be additional disaster time use stair case fitted.
- 15) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 16) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.

- 17) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 18) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 19) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 20) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 21) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 22) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 23) For wheel chair users ramp shall be fitted.
- 24) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 25) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 26) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 27) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 28) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 29) If the building category 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 30) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.

- 31) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 32) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 33) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 34) Emergency service giving institutions phone numbers shall be posted at visible place.
- 35) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 36) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 37) On any building thunder prevention shall be fitted.
- 38) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 39) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

17. Safety Requirements That Require Medium Hotels

- 1) Sufficient water storage not less than 115 cubic meters for fire control, a fire pump capable of pushing 2000-2500 liters of water per minute and the water pressure at each fire point should be not less than 8 bar.
- 2) In the event of an emergency, the distance to the side of the exit shall not be more than 30 meters; a smoke-proof and 30-minute fire-resistant door must be installed.
- 3) A computerized control of the hotel's overall risk and security activity System (control panel board) should be set up in one central location.
- 4) A proper fire extinguisher should be provided by placing the LPG cylinders outside the cooking chamber.
- 5) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.

- 6) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 7) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 8) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 9) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 10) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 11) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 12) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 13) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 14) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 15) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 16) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 17) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 18) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 19) For wheel chair users ramp shall be fitted.
- 20) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.

- 21) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 22) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 23) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 24) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 25) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 26) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 27) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 28) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 29) Emergency service giving institutions phone numbers shall be posted at visible place.
- 30) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 31) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 32) On any building thunder prevention shall be fitted.
- 33) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 34) The arrangement and arrangement of goods shall be properly distinguished, both flammable and non-flammable.

18. Safety Requirements That Require Minimum safety requirements

- 1) A suitable fire extinguisher should be provided by keeping the LPG cylinders out of the cooking area.
- 2) A ramp should be installed for wheelchair users. In addition, a wheelchair should be prepared for the use of the disabled and the customers who need help in case of emergency.
- 3) If the hotel building is classified in category two, it must meet an additional level that can be used as an emergency exit.
- 4) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 5) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 6) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 7) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 8) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 9) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 10) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 11) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 12) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 13) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 14) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.

- 15) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 16) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 17) For wheel chair users ramp shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 21) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 22) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 23) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 24) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 25) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 26) Emergency service giving institutions phone numbers shall be posted at visible place.
- 27) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 28) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 29) On any building thunder prevention shall be fitted.

30) An emergency assembly area shall be set up that takes into account the size of the consumer and the building

31) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

19. Safety standards for hospitals, health centers and health stations

1) Medical centers or care and support buildings shall be designed to evacuate all patients in the event of a fire.

2) Doors in psychiatric buildings should be opened and closed automatically or manually. If they are locked with a key, the key must be in the hands of their care givers or the relevant body.

3) Doors located on the floors of the health care facility's waiting room, deliver, and surgery departments must be self-closing, smoke-proof, and able to withstand heat and flame for at least 30 minutes.

4) There should be ramps at the entrance and exit of the facility that can be used by clients in wheelchairs.

5) Any room with an area of 90 m² should have at least two exit doors.

6) X-ray and radiology rooms where there are devices that can generate radiation should be carefully designed so that the radiation does not harm the customers in the area.

7) A fire pump that can spray more than 2000 liters per minute in a building where health services are provided, with a water storage of not less than 113 cubic meters from a sprinkler system. The water pressure shall not be less than 7.5 bars.

8) The use of electric heating devices in patient bedrooms is prohibited.

9) Expired drugs and equipment must be disposed of in a designated incineration facility when a permit is obtained from a government institution and meets environmental protection and safety standards.

10) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.

- 11) The building every floor balcony doors, mirror shall tolerate fire for a hour.
- 12) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 13) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 14) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 15) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.
- 16) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 17) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 18) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 19) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 20) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 21) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 22) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 23) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 24) For wheel chair users ramp shall be fitted.
- 25) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.

- 26) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 27) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 28) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 29) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 30) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 31) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 32) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 33) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 34) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 35) Emergency service giving institutions phone numbers shall be posted at visible place.
- 36) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 37) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 38) On any building thunder prevention shall be fitted.
- 39) An emergency assembly area shall be set up that takes into account the size of the consumer and the building

- 40) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

20. INMATES LIVING AREA SAFETY STANDARD

- 1) If buildings with overlapping floors are to be built in this place, it should be installed on each building at least in different directions and the journey to reach the exits should not exceed 30 meters.
- 2) If the sleeping rooms are directly connected to a group movement area used for exits or exits, the sleeping rooms shall be permitted to open directly to the day view, travel distance to the exits:
 - A. The distance of a door of any room intended to be an exit access shall not exceed 30 meters.
 - B. The distance between any part of the room and the exit must not exceed 46 meters.
 - C. The maximum travel distance from the location of any bedroom to the door of the room shall not exceed 10 meters.
 - D. The construction of the inmates' living area must be capable of withstanding a fire for one hour.
- 3) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 4) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 5) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 6) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 7) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 8) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.

- 9) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 10) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 11) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smoke proofed and self closing.
- 12) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 13) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 14) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 15) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 16) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 17) For wheel chair users ramp shall be fitted.
- 18) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 19) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 20) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 21) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 22) If the building is two or above the building category:
 - a. An alternative power generator should be developed;

- b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 23) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 24) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 25) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 26) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 27) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 28) Emergency service giving institutions phone numbers shall be posted at visible place.
- 29) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 30) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 31) On any building thunder prevention shall be fitted.
 - 32) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
 - 33) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

21. Safety standard of telecommunication corporation facilities and radio and television broadcasting stations

- 1) Telecommunication facilities and radio and television broadcasting station:
 - a. The buildings of this facility must have a 2-hour fire resistance rating.
 - b. The height of the buildings is more than three floors, there should be a staircase built in different directions for emergency exit.

- c. A device must be fitted to each work room and corridor that indicates danger is still in its early stages;
 - d. An alarm system must be installed in each technical room and various places in case of emergency;
 - e. must obtain a certificate of competence by annual review by the Commission for their risk prevention preparations;
 - f. Employees shall receive training from the Commission on fire prevention and control;
 - g. adequate and appropriate fire extinguishing equipment shall be organized in each of the working units;
 - h. Electrical instability by the technical department shall be prepared by qualified personnel and any inputs for operation shall be standardized and used only by ensuring that they are accepted by the relevant body before they are put into operation;
- 2) Technical Department of the Institute of Telecommunications:
- a. A detector must be fitted in turntable, battery compartment, generator, men server, men swirl, microwave rooms;
 - b. an automatic fire extinguishing device must be equipped according to their working characteristics;
- 3) The radio and television Engineering, equipment maintenance and monitoring, production, studio, simulation sound library, distribution generator room must be equipped with automatic fire extinguishing equipment;
- 4) On mobile transmission vehicle, at least 5kg C.O₂ gas shall be installed for the mobile transmission tool and 6 kg dry powder for the vehicle shall installed.
- 5) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 6) The building every floor balcony doors, mirror shall tolerate fire for hour.
- 7) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.

- 8) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 9) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 10) The buildings fitted or steps shall be constructed by concretes and the height of the building is more than 9 meter there shall be additional disaster time use stair case fitted.
- 11) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 12) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 13) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 14) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 15) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 16) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 17) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 18) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 19) For wheel chair users ramp shall be fitted.
- 20) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M² regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 21) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.

- 22) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 23) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 24) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 25) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 26) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 27) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 28) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 29) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 30) Emergency service giving institutions phone numbers shall be posted at visible place.
- 31) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 32) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 33) On any building thunder prevention shall be fitted.
- 34) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 35) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

22. EDUCATIONAL INSTITUTIONS SAFETY REQUIREMENTS

- 1) Every room that can accommodate more than fifty people or having 90 meter square shall be installed with at least two exit doors and it shall be at the appropriate distance from each other.
- 2) If the necessary fire accident control material is not installed in the corridors of any building taking to the exit rout, it shall not be more than 46 meter and if the material is arranged it can take the distance of up to 61 meter.
- 3) Installation of equipment mounted on the wall of the corridor used for various services in this area shall not cause the crowdies of the corridor.
- 4) Two separate exits were installed on opposite sides of each floor and each floor exits directly leads to outside the buildings of the ground.
- 5) If the school hall has more than 50 seats, the exit door should be opened into two directions and should be kept open.
- 6) Devices that can automatically detect danger in the beginning stage should be installed in the bedroom, food preparation, library, internet cafe, laboratory, computer service room, generator room, workshop, laundry room.
- 7) The construction of the building in the rooms where other work related to fire is carried out must be made to be able to withstand fire for more than one hour.
- 8) Service giving building shall be constructed from building construction materials, sand lime brick, stone, brick or concrete and similar inputs that can tolerate fire for 1 hour.
- 9) The building every floor balcony doors, mirror shall tolerate fire for half hour.
- 10) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 11) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 12) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 13) The buildings fitted or steps shall be constructed by concretes and the height of the building is more that 9 meter there shall be additional disaster time use stair case fitted.

- 14) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 15) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 16) The door fitted on the side of disaster time exit step shall be tolerating fire and heat for about 30 minute, smock proofed and self closing.
- 17) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 18) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 19) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 20) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 21) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 22) For wheel chair users ramp shall be fitted.
- 23) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 24) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 25) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 26) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 27) If the building is two or above the building category:
 - a. / An alternative power generator should be developed;

- b. / must have a device that provides emergency light without interruption for at least 30 minutes;
- 28) If the building category is 2 and above category Office building during disaster to use light source equipment with sign shall be fitted on every floor.
- 29) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 30) Evacuation chair to be used by disabled and support needy users during disaster shall be prepared and ready for use outside of regular step in a form of ramp.
- 31) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 32) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 33) Emergency service giving institutions phone numbers shall be posted at visible place.
- 34) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 35) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 36) On any building thunder prevention shall be fitted.
- 37) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 38) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

23. Safety Requirements that Should be met by any building construction design, process and use must meet

- 1) Any building or structure according to the category shall be including the required safety standards on its design.
- 2) Any building or construction should not be designed and constructed in such a way as to endanger people, other structures and property.
- 3) The structural design of any building or construction must include fire and other disaster prevention and control requirements for natural and man-made hazards

- 4) Any design such as Infrastructure development , building or industrial structure, the condition and number of users, exposure to risk, scope of content, height, should be takes into account the comfortable and safety of users.
- 5) Before the construction permit is issued for any building or construction or infrastructure, the structural design must meet the requirements of natural and man-made hazards such as fire, flood, earthquake, storm, sinking, collapse, and other, and proof disaster prevention and protection standard. And also construction permit must be given in consideration of the country's building standards.
- 6) If maintenance work is carried out while there are residents or users in the building, the employer and the users must take due care when using any materials and equipment used for maintenance work.
- 7) Any newly built building or construction or infrastructure must not be put into use without meeting the hazard safety requirements of the category and without being given a hazard safety qualification certificate;
- 8) When any existing building or construction is being repaired or changed, the systems installed to prevent or control any danger in the structure of the building must be inspected and confirmed after the renovation or repair to ensure that they are completed or replaced or adjusted, and a certificate of accident safety must be obtained for the building;
- 9) A person who owns an existing building that does not meet the requirements of accident safety is obliged to do what is expected to meet the requirements;
- 10) It is the duty of the owner and the users to take proper precautions when using any material or equipment used for maintenance work while there are residents or users in the building.
- 11) Any newly built building or construction or infrastructure should not be used without meeting the requirements of accident safety and without having competency Verification.
- 12) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 13) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 14) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 15) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.

- 16) Prepare the telephone numbers of emergency relief facilities and post them in a conspicuous place;
- 17) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 18) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

24. Safety Standards For Parking Structures

The following provisions shall apply to any building or structure constructed for the purpose of providing vehicle parking services, whether open or closed, above ground or below ground.

- 1) If maintenance work is carried out in these places, the part of the building where the vehicle parking and maintenance center is located should be clearly marked on the design so that it can withstand fire for more than one hour, and this should be taken into account when construction work is carried out.
- 2) Any surface shall be at least separate for the entrance and exit of vehicles, and shall be prepared in the same manner for the persons residing therein;
- 3) Parking area should be established a system to ensure sufficient air circulation.
- 4) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 5) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 6) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 7) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 8) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 9) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.

- 10) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 11) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 12) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 13) The building shall have adequate car park outside or inside of the building considering number of users/customers.
- 14) For wheel chair users ramp shall be fitted.
- 15) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M² regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 16) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 17) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 18) If the building is two or above the building category:
 - 34) An alternative power generator should be developed;
 - 35) must have a device that provides emergency light without interruption for at least 30 minutes;
- 19) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 20) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 21) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 22) Emergency service giving institutions phone numbers shall be posted at visible place.
- 23) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.

- 24) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 25) On any building thunder prevention shall be fitted.
- 26) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 27) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

25. Aircraft Parking Hangar disaster risk Safety Standard

- 1) In the hangar where the aircraft is being maintained, the direction used for the entrance of the aircraft is not more than 40 meters away and at least two places where the renovation / maintenance / work of the aircraft will be done.
- 2) In order for the internal structure of the building to have a special fire resistance, the horizontal travel distance for people's exit should be built as 30 meters.
- 3) An automatic fire extinguisher should be installed in the hangar to control the fire accident that may occur in this place.
- 4) In addition, adequate and appropriate fire extinguishing equipment should be allocated in high risk areas.
- 5) At least 1 standby fire truck with adequate skilled manpower should be prepared at the aircraft landing and departure area.
- 6) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 7) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 8) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 9) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 10) If the height of the building is more that 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.

- 11) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 12) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 13) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 14) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 15) Based on service givers and users living in the building there shall be adequate area outside or inside of the building for assembly point during disaster.
- 16) For wheel chair users ramp shall be fitted.
- 17) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 18) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 19) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 20) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 21) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 22) In every work area based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 23) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 24) Emergency service giving institutions phone numbers shall be posted at visible place.

- 25) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 26) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.
- 27) Lightning protection must be installed on a building;
- 28) Arrangement and placement of items should be properly separated from flammable and non-combustible.

26. Various vehicle maintenance, paint and metal work safety standards

- 1) Storage and maintenance garages should not be built adjacent to other buildings unless they are designed to withstand a fire of at least 2 hours.
- 2) Sales room, display room, office and similar service rooms/building/vehicle parking repair room, wall, floor, roof of construction property should be made to be fire resistant for not less than 2 hours.
- 3) The cornices installed on the maintenance center (garage/attached buildings) should be designed in such a way that it does not pass smoke coming from the maintenance center or vehicle parking area.
- 4) Flooring in vehicle repair centers should be constructed of non-flammable and impervious materials.
- 5) Different types of flammable liquid that are removed from vehicle maintenance should be stored in a designated place and used or disposed of without causing damage to the environment.
- 6) In the workshop where the engine maintenance is carried out, there should be a smoke removal system installed on the engine exhaust line before the engine is opened after the repair work.
- 7) The wall of the maintenance center should not be less than 4 meters high, so that there is sufficient air circulation.
- 8) There should not be any inflammable material, liquids or solids in the room where welding and welding work is performed.
- 9) It is necessary to always ensure that the gas cylinder used for welding is safe and non-hazardous.

- 10) One of the procedures in which gas welding is performed is to mix calcium carbide with water to produce acetylene and immediately welding cylinders are produced by modification. Therefore, unless the equipment used for welding has been certified by the relevant body, they should not be used for this work.
- 11) In addition to matching the power supply and electric current carrier cable for the arc welding equipment, no ignited electric cable should be used.
- 12) Arc welding should be performed by a professional with sufficient knowledge in the field.
- 13) Paint work shall be done in a protected room for this work and it is prohibited to use an open fire sparking device within 6 meters of the workshop where this work is done.
- 14) It is forbidden to start the vehicle engine before the paint is dry.
- 15) It is possible to carry out painting work on a specific part of a vehicle outside of the painting workshops and within a distance of less than 6 meters, if you do not use flammable equipment.
- 16) There should be a Safety Officer/Respondent in the maintenance center to ensure that any work process does not cause accidents.
- 17) The staff cloth changing room should have a metal cabinet/closet for each employee's clothes so that it can be self-contained and clutter-free.
- 18) The electrical installation in the building shall keep standard and the installation shall be carried out by institution and professionals having appropriate/ adequate/ knowledge.
- 19) To prevent disaster from mixed use, service giving buildings they shall have mutual or responsible professional person / committee.
- 20) It is strictly forbidden or prohibited to undertake any kind of construction or maintenance works on any kind of building without having permission from the concerned organ.
- 21) On every building floor corridor considering the length of the corridor up to 30 meter fire hose fitted.
- 22) If the height of the building is more than 3 floor there shall be one additional disaster time use stair case connected to every floor directly taking to the ground to reach assembly point in a convenient manner.
- 23) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.

- 24) A human resource/ personnel trained or having certificate in fire accident, disaster prevention and control profession as required shall be available
- 25) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 26) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 27) For wheel chair users ramp shall be fitted.
- 28) Based on the nature of the institution and flammability level fire hydrant to be installed in 40,000M2 regions shall be available and if the size of joints is 2 and half inch instantaneous coupling shall be fitted.
- 29) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 30) The commission and other emergency disaster vehicles and ambulance ways and park area shall be prepared in advance and roads shall be free from any blockage that affects response to disaster faster.
- 31) If the building is two or above the building category:
 - a. An alternative power generator should be developed;
 - b. must have a device that provides emergency light without interruption for at least 30 minutes;
- 32) If the building category is 03 and above electric and fuel supported fire pump, disaster indicator detector and fire alarm and emergency exit direction indicator shall be available.
- 33) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared
- 34) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 35) Emergency service giving institutions phone numbers shall be posted at visible place.
- 36) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 37) By preparing emergency response plan shall be informed to residents, workers, and the institution community and adequate practice period shall be prepared and workers shall perform the disaster prevention and control works with the spirit of ownership.

- 38) On any building thunder prevention shall be fitted.
- 39) An emergency assembly area shall be set up that takes into account the size of the consumer and the building
- 40) The arrangement and arrangement of goods should be properly distinguished, distinguishing between flammable and non-flammable.

27. Safety requirements that must be met by institutions that import, refill, distribute and repair emergency equipment from abroad.

- 1) Imported fire extinguishers and warning devices must have evidence that they have been certified according to international standards and quality.
- 2) Each fire extinguisher cylinder must have a specification from the manufacturer stating how much compressed gas pressure (bar) it can withstand.
- 3) Each fire extinguisher shall have a written description in English about the type of chemical it contains, its handling and use.
- 4) It is strictly forbidden to repair or refill the fire extinguisher that was delivered from the factory.
- 5) Those which have not an international standards and quality of fire extinguisher Importing, using, and refilling is prohibited
- 6) It is prohibited to make imitation cylinders for holding chemicals used for firefighting or to fill the cylinder by hand knowing that it contains fire extinguishers.
- 7) People engaged in this work must at least have training and certification from the commission to prevent and control fire accidents.
- 8) Electrification in a building must be standardized and carried out by an appropriately accredited institution and professional;
- 9) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 10) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 11) Personal injury protective clothing should be used in the workplace as necessary based on exposure and exposure to the nature of the work of buildings and various institutions;
- 12) Each organization must meet the safety criteria and obtain the Commission's certificate of competence and renew it annually;

- 13) Prepare the telephone numbers of emergency relief facilities and post them in a conspicuous place;
- 14) Provide and provide awareness training to residents, staff and the institutional community about disaster prevention and control;
- 15) The arrangement and arrangement of goods should be properly identified and properly distinguished, both flammable and non-flammable.

28. Various Public And Private Institutions In The City That Do Not Met The Above Criteria safety standard

- 1) Must have sufficient water reserves designed for fire control only
- 2) Electrification in a building must be standardized and carried out by an appropriately accredited institution and professional;
- 3) There should be an expert or committee capable of taking collective or personal responsibility for the disaster of a building providing different services;
- 4) If the height of the building exceeds three floors, there shall be one additional level of escalator for emergency use that is connected to each floor and directly leads to the ground and is convenient for going to the emergency collection point;
- 5) Portable fire extinguisher equipment should be kept at appropriate distance and as required ready for disaster works and confirmed every 6 month by accredited organ.
- 6) A human resource/ personnel trend or having certificate in fire accident, disaster prevention and control profession as required shall be available.
- 7) There shall be pre disaster prevention, prohibited, danger, warning and information giving signs in the company/ organization as required at needed places.
- 8) In order to provide first aid service for injured person during disaster there shall be complete first aid kit.
- 9) For wheel chair users ramp shall be fitted.
- 10) If there is clear fire related to wastage burning, smoking cigarettes and different services they are flammable matter, combustibility shall be far at least 10 meter distant.
- 11) The company/ the building resident workers, the building user's personal protective equipment shall be fulfilled in adequate condition.
- 12) In every work company based on the nature of work and as required wastage and dust container or place of disposal system shall be prepared.

- 13) They shall fulfill safety criteria and by obtaining the commission competency verification certificate, it shall be renewed every year.
- 14) Emergency service giving institutions phone numbers shall be posted at visible place.
- 15) Awareness training on disaster prevention and protection shall be given to residents, workers, and the institution community.
- 16) The arrangement and arrangement of goods should be properly identified, distinguishing between flammable and non-flammable.

Part three

Standard criteria for establishments engaged in fire extinguishing equipment

29. Requirement for public level registration certificate for those engaged in the operation of fire extinguishing and notification equipment

A facility that imports, distributes, fills and repairs fire extinguishing and notification equipment and personal injury protective clothing:

- 1) must be adequate to carry out the work;
- 2) must have a vehicle to be used for work; (2) must have a vehicle to be used for work;
- 3) Must ensure that technical and sales personnel receive at least fire prevention and control training from the Commission;
- 4) Any safety equipment imported into the country must provide proof that they have met international standards and quality standards;
- 5) A description of how much compressed gas pressure or bar each fire control cylinder can carry from the manufacturing company and ensure that a non-stick international color code is present on each cylinder;
- 6) Ensure that there is sufficient stock of fire extinguishing equipment of various sizes and types;
- 7) The machinery used must provide evidence of receipt in non-erasable writing on machines stating ownership of the facility;

30. Level One Registration Certificate Requirement

Notwithstanding the provision stated under article No. 29 :

To obtain a Level One registration certificate of a facility that imports, sells, distributes, fills and repairs fire prevention, control, notification equipment and personal injury protective clothing:

- 1) workshop (consisting of simulation and demonstration equipment);
- 2) Digital scale that can weigh 1-50 or more kg of different levels of available fire extinguishing equipment;
- 3) Nitrogen filler, carbon oxide filler and dry powder filling machine;
- 4) Hydro static press test making device to measure the strength of cylinders and

- 5) Iron and wood polishers (drillers), visors, must be equipped with various types of equipment required for repair work;.

31. level two registration certificate Requirement

Notwithstanding the provision stated under article No. 29 :

Subject to the provisions in Article 29 of this directive, an institution that imports, sells, distributes, fills and repairs fire protection, control, notification equipment and personal injury protective clothing to obtain a level two registration certificate must fulfill.

32. Level Three Registration Certificate Requirement

Notwithstanding the provision stated under article No. 29 :

To obtain a level three registration certificate of a facility that imports, sells, distributes, fills and repairs fire prevention, control, notification equipment and personal injury protective clothing: Organizations that sell, refill and repair fire protection, control and notification equipment;

- 1) workshop (consisting of simulation and demonstration equipment);
- 2) Digital scale that can weigh 1-50 or more kg of different levels of available fire extinguishing equipment;
- 3) Nitrogen filler, carbon oxide filler and dry powder filling machine;
- 4) Hydro static press test making device to measure the strength of cylinders and
- 5) Iron and wood polishers (drillers), visors, must be equipped with various types of equipment required for repair work;.

33. Level Four Registration Certificate Requirement

Notwithstanding the provision stated under article No. 28 :

A facility that imports, sells, distributes, fills and repairs fire prevention, control, notification equipment and personal injury protective clothing must be equipped with metal and wood (driller), visous, various types of equipment required for repair work;

Part four

PROHIBITED ACTIONS AND OBLIGATIONS

34. Prohibited Acts

The following actions are prohibited:

Committing the deeds mentioned under regulation No. 132/2014, article 19, sub-article one to 16 is prohibited;

- 1) Disruption of hydrants used by the Commission for disaster control in various locations, moving them from place to place without the approval of the Commission, taking them into private possession, carrying out construction on them, using other devices with this device;
- 2) Manufacture modification of emergency response equipment and personal protective equipment;
- 3) Issuing or accepting a certificate of verification competency as if the safety requirements had not been met;

35. Regarding Obligation

Any governmental or non-governmental institution has the following obligations;

- 1) Renewal of disaster safety certificate of verification competency which is renewed annually.
- 2) Ensuring that the fire control and early warning notice devices installed in the company get an up-to-date professional certification.
- 3) Provide proper fire extinguishers on any vehicle.
- 4) In each organization, will provide enough professionals that trained in fire prevention and control!
- 5) The audience must be accommodated in the seats provided in meetings, theaters and cinemas.
- 6) They have the duty to apply and implement the laws and regulations of emergencies.
- 7) Shall not interfere with the commission's early disaster prevention and disaster control experts at work, not disturbing the proper performance of the required professional duty.
- 8) Making a emergency call of any community institution by telephone or by walking or driving or otherwise not occupying or jamming the emergency reception telephone line.

- 9) Which are more than the legal and permissible amount, improperly storing flammable explosive chemicals and materials in one's own premise.
- 10) Completing adequate and appropriate risk prevention and controlling equipment based on professional advice and technical support provided by the commission and the bodies recognized by the commission.
- 11) Before any facility building is open to the user for the appropriate use, the commission's experts shall conduct a risk safety inspection and obtain a qualification certificate from the commission;
- 12) Shall ensure that the fire control devices in the institution or the organization are certified twice a year by organizations accredited by the commission.

PART SIX

MISCELLANEOUS PROVISIONS

36. Disaster Prevention and Control officer

- 1) A public, public and private institution shall assign disaster prevention and control experts on a regular or overlapping duties according to the scope and service delivery of the institution;
- 2) The number of professionals assigned to each institution pursuant to subsection (1) of this Article: Where there are employees below fifty..... 4 experts
 - A. Where there are 50 or less employees.....1 Experts
 - B. Where there are 50-100 employees.....3 Experts
 - C. Where there are 101-200 employees..... 4 Experts
 - D. Where there are 201-500 workers.... 6 Experts
 - E. 501-1000 employees with 15 professionals..... 8 Experts
 - F. Over 1000 employees.....10 experts, Shall be organized in each institutions and Safety Office who is responsible for safety shall be assigned.

37. Monitoring and Control

The commission Monitors, supervises and supervises governmental and non-governmental institutions authorized by law to distribute fire protection and control equipment in the city.

38. Competency Verification certificate

Any governmental and non-governmental institutions, as well as the presence owner of the fire protection and control equipment, or the legal agent or entity using the property, must have a fire safety qualification certificate that is renewed annually by performing the inspection and the required service fee.

39. Procedure of Disciplinary Measures and Administrative Penalty

- 1) The Commission conducts periodic risk safety inspections of any facility and provides written feedback for corrective action within a six-month period for compliance requirements.
- 2) If the certificate of qualification fails to be renewed in a timely manner, it shall be fined and renewed in accordance with the service fee of the Commission at the time of delay;

- 3) An office officer or professional who orders violations of the provisions of this Directive more than three times within one year or performs acts contrary to rules and regulations shall be personally liable for damages;
- 4) The administrative action and punishment to be taken shall be carried out in accordance with Table Four of the Appendix attached to this Directive;

40. Submission Of Complaints And Appeals

- 1) An employee of the Commission who has been subject to administrative punishment may file a complaint with the officers at all levels within 10 (ten) working days from the date of receipt of the penalty
- 2) Pursuant to subsection (1) of this Article, the Commission shall investigate and respond to the complaint within 30 days of receipt of the complaint;
- 3) The institution in which the certificate of qualification has been suspended or revoked may file a complaint with the Commission within 10 working days from the date of receipt of the suspension or cancellation penalty;
- 4) Pursuant to subsection (3) of this Article, the Commission shall investigate and respond to the complaint within 30 days of receipt of the complaint;

41) Effective Date of the Directive

This directive shall be effective from the date it has been registered by the Ministry of Justice and uploaded on the Commission's website.

Commissioner Fikre Gizaw

Fire and Disaster Risk Management Commission

Addis Ababa

Ethiopia

Miscellaneous Appendix Table

Appendix Table A .Gas storage tank installation distance from different facilities and peripheral objects

No.	different institutions and areas	Above 50 Ton	30-50 Ton	15-30 Ton	6-15 Ton	Below 6 Ton
1	Existing trees at the area	20 meter	10 meter	10 meter	7.5 meter	5 meter
2	Piled wood	20 meter	10 meter	10 meter	7.5 meter	5 meter
3	sewerage disposal line	20 meter	10 meter	5 meter	---	5 meter
4	Gas filling line	7.5 meter	5 meter	5 meter	----	3 meter
5	holding fence	30 meter	15 meter	7.5 meter	----	5 meter
6	Open fire	20 meter	15 meter	10 meter	7.5 meter	5 meter
7	Train line	20 meter	15 meter	15 meter	7.5 meter	5 meter
8	Other fuel and fuel products	20 meter	15 meter	10 meter	7.5 meter	5 meter
9	Higher electric line	20 meter	15 meter	10 meter	7.5 meter	5 meter
10	Water stream area	20 meter	10 meter	10 meter	7.5 meter	5 meter
11	Residence building	20 meter	15 meter	10 meter	7.5 meter	5 meter
12	Public passing road	30 meter	15 meter	10 meter	---	5 meter
13	Other service giving building	75 meter	10 meter	25 meter	15 meter	7.5 meter

Appendix Table Two . The distance that should be maintained from different angles of the small size of the LPG Holding Cylinder:

No.	Rooms	Below 50 Kg	51-250 Kg	More than 250 Kg
1	Residence building	1 meter	2 meter	3 meter
2	Different service giving buildings	2 meter	3 meter	3 meter
3	Sewerage disposal and a aerating line, below ground room	2 meter	3 meter	3 meter
4	Open fire butane	1 meter	-	-
5	Open fire propane gas	3 meter	3 meter	5 meter
6	Holding fence	3 meter	3 meter	3 meter
7	Public movement road	3 meter	3 meter	3 meter
8	Electric power functioning equipment for butane	3 meter	-	--
9	Electric power functioning equipment for propane gas cylinders	3 meter	3 meter	5 meter
10	Electric line	3 meter	5 meter	7.5 meter

Appendix Table Three . Fire extinguishing equipment required for LPG Fire Risk Control Work

No.	LPG stock quantity	Minimum criteria for equipment required to control fire burning accident/ disaster
1	Below 5 ton	14 Kg powder and sprinkler system
2	5-10 ton holding tanker	24 Kg powder and sprinkler system
3	11-15 ton holding tanker	26 Kg powder and sprinkler system
4	16-30 ton holding tanker	29 Kg powder, 100-125 Kg portable powder and sprinkler system, one fire hydrant
5	30-50 ton holding tanker	29 Kg powder, 100-125 Kg portable powder and sprinkler system , one fire hydrant
6	More than 50 ton holding tanker	30 Kg powder, 150-225 Kg portable powder and sprinkler system , one fire hydrant

Appendix Table 4 . Taking action and administrative punishment

Level of Offence	Type of Offence	Administrative Penalty	Remark
3	<p>Failure to provide adequate and appropriate firefighting equipment. Failure to fulfill alarm depending on the size of the institution and the type of service provided.</p> <p>Failure to meet international safety standards as required, if it does not prepare an emergency assembly, failure to prepare a plan for evacuation from the building in the event of an emergency, depending on the type and size of the facility.</p> <p>not have an emergency response plan in place, failure to prepare communication devices and emergency call reception phones, failure to conduct a joint drill once a year based on the professional advice and support provided by the commission's experts, and failure to train the company's employees in disaster prevention and control training, incomplete first aid kit, interference and commission experts did not do their job properly, did not cooperate,</p>	<p>If the offense is committed for the first time, he will be given professional advice and feedback to correct it within six months,</p> <p>If the offense is committed for the second time, a written notice to correct it within three months shall be given a warning.</p> <p>If he is warned and does not fix it, he will be given a chance to fix it again by paying 10,000 birr.</p> <p>If he fails to pay 10,000 birr and fails to take advantage of the opportunity, he will inform the government body that gave him the license to suspend his work permit.</p>	
2	<p>In case company's employees are not trained in disaster prevention and control training, Failure to provide adequate and appropriate firefighting equipment, it does not meet the alarm in accordance with the size of the institution and the type of service provided, any facility that has not assigned a safety professional and does not have the Commission's office of accident safety certification and has not renewed its annual renewal certification; the fire pump is not complete in accordance the professional advice and support provided by the commission experts</p>	<p>If the offense is committed for the first time, he will be given professional advice and feedback to correct it within six months.</p> <p>If the offense is committed for the second time, he will be given a written warning to correct it within three months.</p> <p>If he fails to use the opportunity to</p>	

	<p>Incomplete first aid kit</p> <p>Inadequate electrical wiring Failure to install emergency electric lines, failure to practice once in a year based on the advice and support provides by the commission's expert, disrupting the workers of the commission not to work their work properly , uncooperative</p>	<p>re-adjust after paying 50,000 birr,</p> <p>If he fails to pay 50,000 birr and fails to take advantage of the opportunity, he will inform the government body that gave him the license to suspend his work permit.</p>	
1	<p>The company's employees are not trained in disaster prevention and control training.</p> <p>Failure to provide adequate and appropriate firefighting equipment;</p> <p>Commission experts who did not do their job properly, uncooperative,</p> <p>Institutional Security Officer Unrestricted; He did not make the employees in the institution receive training on fire and disaster prevention and control, the commission experts did not do their work properly, he did not cooperate,</p> <p>he did not build a building with materials that can withstand fire.</p> <p>They did not provide adequate passages and emergency exits.,</p> <p>there is no a fire pump done with diesel and electricity that can store 115-150 cubic meters of water and spray 2000-2500 liters of water per minute in the company.</p> <p>In case automatic water sprinkler system and detectors required by the facility, first aid box not complete.</p> <p>Failure to properly route and cover electrical cables with conduit;</p> <p>Asset management and inventory management not properly implemented;</p> <p>The hydrant was not planted According to the professional advice and support given by the experts of the commission,</p>	<p>If the offense is committed for the first time, he shall be given professional advice and feedback to correct it within six months.</p> <p>If it is done, he will be given a written warning to correct it within three months.</p> <p>If he is warned and does not fix it, he will be given a chance to fix it again by paying 100,000 birr.</p> <p>If failed to rectify it after paying 100,000 birr, his work permit shall be suspended.</p>	