

MUMBAI FIRE BRIGADE.

Fire safety requirements for the Trade of Eating House / Restaurant etc. u/s 394 covered by M.O.H.

A] Codified requirements for the trade of eating house/preparation of eatables using coal/diesel/kerosene/fire wood as a fuel (**fuel other than LPG/PNG/Electromotive Power**) and for sale of eatables/sweet meat shop etc under section 394 of the Mumbai Municipal Corporation Act controlled by Public Health Department.

1. Entrance, Exit shall be kept unobstructed at all the time.
2. A clear passage having one meter width from entrance to exit /rear wall shall be kept unobstructed at all the time.
3. The additional exit shall be provided for the kitchen.
4. Electric wiring shall be laid in metal/PVC conduit continuously bonded to earth.
5. Electric main shall be switched off daily before closing the premises.
6. Nothing shall be kept in the radius of one meter from any electric wiring and /or installation.
7. No loft and /or wooden partition shall be erected on the premises without having prior permission of the CFO's Department
8. Cooking/heating, preparation of eatable shall be strictly prohibited at the entrance of the premises.
9. Cooking shall be permitted by using approved type one kerosene oil pressure stove having capacity not exceeding 5 litres.
10. Kerosene oil pressure stove shall be kept on raised non- combustible cooking platform on the rear side of the premises in the kitchen.
11. Entire premises and kitchen shall be kept well- ventilated.
12. Flooring shall be kept free from oil deposits i-e flooring shall be non- slippery.
13. Good house- keeping shall be maintained on the premises.
14. "No Smoking" board shall be conspicuously displayed on the premises in Marathi, English and pictorial sign.
15. An adequate safety guard shall be provided for all moving parts of the machinery /motor /appliances.
16. Safety goggles and hand gloves shall be used.
17. Edible oil, Vanaspati ghee, pure ghee shall be kept in their original seal container packing on steel racks alongside wall in different lots one meter away from each other.
18. Essential oil shall be kept in their original sealed packing containers and shall be kept at least two meters from other commodities and escape route.
19. Stacking height shall not exceed more than 2.25 metres. However, clearance of one meter from ceiling, 15 cm. from side wall and 10 cm. from flooring shall be maintained on the premises.
20. Damage /leaking/loose container shall not be kept on the premises.
21. Trade waste/cartoons/papers or cardboard boxes shall be collected regularly in separate metals bins having lids and shall be disposed off daily before closing the premises.
22. Only diesel bhatties are allowed to be use on the premises.
23. The entire diesel tank/piping installation shall be carried by an authorized agent and accessories shall be approved standard (I.S.I) type & shall be installed in the place marked on the approved plan on the premises.
24. Main shut off valve shall be provided on diesel pipe line on either side, where it enters inside preparation area.

25. Diesel oil shall be fed to the bhatties, under gravity through metal tank having capacity of 50 liters (Fifty litres only) & shall be kept on the steel framed, one meter above the ground level.
26. The piping between metal tank & diesel bhatties as well as pipe for carrying excess diesel oil back to the metal tank, shall be of copper metal & supported with clamps & protected from physical damage.
27. All the electric appliances/motors shall be earthed properly and non-conductor of electricity matting shall be provided on the floor underneath the electric appliances.
28. All the electric appliances/motors shall be installed on raised platform at least fifty (50) cm. from the floor level and shall be of approved type.
29. All the electric appliances/motors shall be provided with the indicator lamp, earth circuit breaker and thermostat controller in the circuit.
30. All the electric appliances/motors and electrical installation used on the premises shall be of approved quality.
31. Oil impregnated cotton waste/rags and trade waste shall be collected regularly in separate metals bins having lids and shall be disposed off daily before closing the premises.
32. All commodities shall be kept in different lots One meter away from each other.
33. Decanting /repacking shall not be permitted on the premises.
34. No other licensable commodities shall be kept on the premises.
35. No other fuel (other than permitted) shall be permitted to use on the premises.
36. An adequate size and number of exhaust fans shall be provided on external wall of the kitchen and/or manufacturing/preparation of eatable area and the same shall be kept running during working hours.
37. The storage of any type shall be strictly prohibited over the bhatti.
38. Number of Bhatti shall be restricted to two only and only fire wood shall be permitted as fuel.
39. The chimney of bhatti shall be properly maintained & cleaned at regular intervals to avoid accumulation of carbon soot.
40. The chimney stack shall extend at least two metres above the roof and shall be adequately supported. It should be provided inspection holes, cleaning chain and spark arrester.
41. The portion where chimney passes through roof shall be covered with non-combustible substances.
42. Lay-out of the chimney shall be as per approval of A.E. (Environment).
43. Ancillary commodities shall be restricted to the items and quantities approved by MOH.
44. Fire wood shall be stored in an independent store room of the premises, away from source of heat and other combustible storage. And shall be kept separately in different lots keeping distance of at least one metre between two lots. Stacking heights shall be restricted to 2.25 mtrs, keeping clearance of at least one metre from ceiling and 15 cms from side walls and 10 cms from flooring
45. The stock of edible oil and veg. Ghee shall be stored in its original containers with proper lid and shall be kept on metal racks away from source of heat and other combustible storage.
46. No any damaged or leaking container shall be stored on the premises.
47. The flooring of the premises shall be kept free from oil deposits.
48. Smoking, Dwelling and use of naked flame (Other than approved) shall be strictly prohibited in the premises.
49. No other Inflammable/ Combustible Commodities shall be allowed to be kept in the premises.
50. Trade waste shall be collected in metal bins with lids and disposed of daily.
51. Good housekeeping shall be maintained, and the premises shall be well ventilated.
52. The smouldering coal and hot ash removed from the bhatti shall be cooled down completely and disposed off.
53. Tandoor Bhatti shall be installed 1 mtr away from combustible material and other Bhatti/burner/stove etc.
54. No other fuel shall be used except charcoal permitted for the tandoor Bhatti.
55. Charcoal shall be kept in a metal container with lid away from any source of heat.

56. The smouldering coal, Ambers and hot ash in the Tandoor/Coal Bhatti shall be cooled down with water completely before closing the premises.

All the premises which comply the requirements, shall put up board at prominent location at the entry in English and Marathi stating that “This premises is fire safety compliant” and “हा परिसर अग्नि सुरक्षिततेच्या दृष्टीने परिपूर्ण आहे.”

BI FIRE SAFETY REQUIREMENTS FOR USE OF “SINGLE LPG CYLINDER”:

1. The entrance, exit, passage shall be kept free from any obstruction.
2. A clear passage of at least one meter width shall be kept from entrance to the rear side.
3. The entire electric wiring shall be laid in metal conduit or fire retardant material as per ISI standard conduit, continuously bonded to earth (M.C.B. / R.C.C.B. shall be provided).
4. The electric mains shall be switched off daily before closing the premise.
5. No storage of any kind shall be done within the radius of one meter from any electric wiring and/or electric installations.
6. Good housekeeping shall be maintained on the premise. All inflammable packing and other material should be removed time to time.
7. The total area of the kitchen room should not be less than 150 sq. feet.
8. The LPG Cylinder shall be kept under the RCC kitchen platform in the kitchen room with the provision of metal doors having perforations. The main valve of the cylinder shall be kept in “OFF” position, when not in use.
9. The position of the cylinders shall facilitate:
 - a. Changing and quick removal of any cylinder in case of necessity and access to cylinder valve connections and regulating devices.
 - b. Cylinders shall be installed upright with the valves uppermost.
 - c. Cylinders shall not be installed or used below ground level, in cellars or basements.
 - d. Cylinder containing more than 20 Kg of gas shall not be located on floors above ground level.
 - e. Cylinders shall not be installed at a place where they may be overheated, for example, close to steam pipes and boilers.
 - f. Cylinders shall not be installed at a place where they are likely to cause an obstruction, to be damaged or to be exposed to conditions likely to affect their safety.
 - g. Cylinders shall be located on a concrete or brick floor, preferably raised in case of outdoor installations.
 - h. In order to prevent the hazardous collection of gas, cylinders shall be placed at least 1 m away from culverts, depressions, or openings leading to below ground level compartment, and drains.
10. The cooking burners shall be restricted to 1/2/3 in numbers and shall be kept on the raised non combustible platform and shall be kept at least one meter apart.
11. The L.P.G. cylinders permitted for use shall be single cylinder installation of 19.2 kg capacity, with 2 medium size burners of ISI standard.
12. The entire gas installation i.e. regulator, other fixtures shall be carried out under the supervision of a qualified engineer from any one of the public utility company confirming to the rules for commercial and industrial use of L.P. gas.
13. Installations on which flexible hose is used shall satisfy the following conditions:
 - a. The cylinder and the appliances connected to it shall be in the same room.
 - b. The length of hose shall be kept as short as possible and should normally not exceed 2 meters.
 - c. The appliances connected shall be of portable type and not mounted in a fixed position.

- d. Flexible hose shall not be extended from one room or verandah or one space to another and therefore shall not be passed through doors, windows, walls, partitions, ceilings, or floors.
 - e. Flexible hose shall be accessible for easy inspection and shall not be connected from view in walls, cupboards, cabinets and other obstructions.
 - f. Flexible hose shall not be used in conditions where ambient temperature exceeds 52°C.
 - g. Flexible hose shall be so installed that it is not twisted, looped or kinked and is not subjected to any external pressure. Periodic inspection to be carried out by the supplier of the gas.
14. Appliances which are rigidly fixed in position shall be connected by means of rigid piping. Appliances which are portable, if connected to rigid piping, shall be connected through flexible or semi-flexible connections.
 15. All the parts of the installations including piping, manifold and other accessories shall be as per relevant I.S. Standards. [IS 6044-1 (2000)]
 16. Empty cylinders shall be replaced by an experienced delivery person / worker from the authorized gas distributing company and no naked light shall be kept "ON" when the L.P.G. cylinder is replaced.
 17. No spare/loose cylinder more than what is permitted to be kept anywhere on the premise.
 18. No other fuel such as kerosene, diesel oil, coke, firewood, C.N.G. etc. shall be permitted on the premise.
 19. Premises shall be kept well ventilated.
 20. Metal hood shall be provided over the burners and shall be connected to the ducting and the outlet of the ducting shall be extended at least one meter above the height of the structure.
 21. Dwellings, smoking, use of naked light/flame (other than permitted) shall be prohibited on the premises.
 22. Storage of any other inflammable substances shall be strictly prohibited on the premises.
 23. No loft or mezzanine floor shall be erected unless prior approval from competent authorities. If loft is approved, there shall be no kitchen room below the loft and loft shall only be used for storage purpose. If mezzanine floor is approved, there shall be no kitchen room below the mezzanine floor.
 24. The trade license, C.F.O.'s requirement letter and consumer number along with name of the distributor / company supplying the LPG cylinder and maintaining installation shall be displayed at the prominent place on the premises.
 25. L.P. Gas leak detector shall be installed near gas installation so as to give alarm for leakage.
 26. One/Two Dry Chemical Powder type fire extinguisher of 09 kg capacity each with ISI certification mark and two buckets filled with dry clean sand shall be kept on the premises.
 27. All the above said requirements shall be fulfilled before the use of L P Gas.
 28. The compliance of the Fire safety measures/ requirements which is mandatory from fire safety point of view, shall indemnify and in case of default, the user is liable for prosecution.
 29. M.O.H. of the concerned Ward shall verify the submission of test certificate from authorized distribution agency before renewal of Trade License.
 30. MCGM/ Fire Brigade dept. reserves the right to change / alter / add / delete the terms and condition of this NOC. Internal layout & construction, addition & alteration, existing mezzanine floor shall be got approved from A.E. (B&F) of the concerned ward.
 31. Authenticity of the area, premises, structure, trade activity and other approvals shall be verified and confirmed by the concern M.C.G.M. authorities.
 32. The fire safety measures/ requirements issued for the use of L.P. gas cylinder, if fulfilled, the MOH shall confirm the compliance before renewing/ issuing Trade license.
 33. These remarks are offered from the fire risk point of view only and validity subject to final verdict of any legal consequences pending thereto."

Safety Precautions:

A In case of leakage of L.P. Gas:

1. Close the main valve of the cylinder at regulator assembly. In case of leakage from main valve of the cylinder, fix the safety cap of the cylinder in its place so as to stop the leakage & the cylinder shall be moved to an open space.
2. Ventilate the premises by opening all the doors, windows.
3. Do not operate (ON or OFF) any electrical switch. Let it be as it is.
4. Avoid any ignition source such as any naked flame, lighting match stick, gas lighter, any type of spark. Put out the any lighted flame in close vicinity.
5. Evacuate the premises.
6. If you cannot stop the leakage, inform Fire Brigade and your L.P. Gas dealer.

B In case of fire at supply pipe / tube:

1. Inform Fire Brigade immediately and evacuate the premises as early as possible.
2. Till Fire Brigade arrives try to close the Gas supply by turning off the main valve at regulator assembly / manifold.
3. Do not put out the flame until you shut off the main valve (supply of the gas).
4. Once the gas supply is shut off, try to put out the flame by smothering with wet cloth, bucket of water or using fire extinguisher.

Above mentioned fire safety measures have been stipulated irrespective of ascertaining area authenticity. However same shall be checked & verified by the concerned authority of MCGM.

All the premises who comply are requested to put up board at prominent location at the entry in English and Marathi stating that “This premises is fire safety compliant” and “हा परिसर अग्नि सुरक्षिततेच्या दृष्टीने परिपूर्ण आहे.”

C| FIRE SAFETY REQUIREMENTS FOR USE OF “1 + 1 LPG CYLINDER(ONE IN USE+ ONE IN SPARE)”:

1. The entrance, exit, passage shall be kept free from any obstruction.
2. A clear passage of at least one meter width shall be kept from entrance to the rear side.
3. Rear side exit of the premise shall be kept open during all the working hours.
4. The entire electric wiring shall be laid in metal conduit or fire retardant material as per ISI standard conduit, continuously bonded to earth (MCB/R.C.C.B. shall be provided).
5. The electric mains shall be switched off daily before closing the premise.
6. No storage of any kind shall be done within the radius of one meter from any electric wiring and/or electric installations.
7. Good housekeeping shall be maintained on the premise. All inflammable packing and other material should be removed time to time.
8. The total area of the preparation room should not be less than 150 sq. feet.
9. The LPG Cylinder shall be kept under the non-combustible & rigid platform in the kitchen room with the provision of metal doors having perforations. The main valve of the cylinder shall be kept in “OFF” position, when not in use.
10. The position of the cylinders shall facilitate:
 - a. Changing and quick removal of any cylinder in case of necessity, and access to cylinder valve connections and regulating devices.
 - b. Cylinders shall be installed upright with the valves uppermost.
 - c. Cylinders shall be located on ground floor level only.
 - d. Cylinders shall not be installed or used below ground level, in cellars or basements.
 - e. Cylinders shall not be placed at a place where they may be overheated, for example close to steam pipe and boilers.
 - f. Cylinders shall not be installed at a place where they are likely to cause an obstruction, to be damaged or to be exposed to conditions likely to affect their safety.

- g. Cylinders shall be located on a concrete or brick floor, preferably raised in case of outdoor installations.
- h. In order to prevent the hazardous collection of gas, cylinders shall be placed at least 1 m away from culverts, depressions, or openings leading to below ground level compartment, and drains.
- 11. The cooking burners shall be restricted to 1/2/3/4 in numbers and shall be kept on the raised non combustible platform and shall be kept at least one meter apart.
- 12. The L.P.G. cylinders permitted for use shall be single cylinder installation of 19.2 kg capacity, (one cylinder in use and one spare) with 1/2/3/4 medium size burners of ISI standard.
- 13. The entire gas installation i.e. regulator, other fixtures shall be carried out under the supervision of a qualified engineer from any one of the public utility company confirming to the rules for commercial and industrial use of L.P. gas.
- 14. Installations on which flexible hose is used shall satisfy the following conditions:
 - a) The cylinder and the appliances connected to it shall be in the same room.
 - a. The length of hose shall be kept as short as possible and should normally not exceed 2 meters.
 - b. The appliances connected shall be of portable type and not mounted in a fixed position.
 - c. Flexible hose shall not be extended from one room or verandah or one space to another and therefore shall not be passed through doors, windows, walls, partitions, ceilings, or floors.
 - d. Flexible hose shall be accessible for easy inspection and shall not be connected from view in walls, cupboards, cabinets and other obstructions.
 - e. Flexible hose shall not be used in conditions where ambient temperature exceeds 52°C.
 - f. Flexible hose shall be so installed that it is not twisted, looped or kinked and is not subjected to any external pressure. Periodic inspection to be carried out by the supplier of the gas.
- 15. Appliances which are rigidly fixed in position shall be connected by means of rigid piping. Appliances which are portable, if connected to rigid piping, shall be connected through flexible or semi-flexible connections.
- 16. All the parts of the installations including piping, manifold and other accessories shall be as per relevant I.S. Standards. [IS 6044-1 (2000)].
- 17. Empty cylinders shall be replaced by an experienced delivery person / worker from the authorized gas distributing company and no naked light shall be kept "ON" when the L.P.G. cylinder is replaced.
- 18. No spare/loose cylinder more than what is permitted to be kept anywhere on the premise.
- 19. No other fuel such as kerosene, diesel oil, coke, firewood, C.N.G. etc. shall be permitted on the premise.
- 20. Premises shall be kept well ventilated.
- 21. Metal hood shall be provided over the burners and shall be connected to the ducting and the outlet of the ducting shall be extended at least one meter above the height of the structure.
- 22. Dwellings, smoking, use of naked light/flame (other than permitted) shall be prohibited on the premises.
- 23. Storage of any other inflammable substances shall be strictly prohibited on the premises.
- 24. No loft or mezzanine floor shall be erected unless prior approval from competent authorities. If loft is approved, there shall be no kitchen room below the loft and loft shall only be used for storage purpose. If mezzanine floor is approved, there shall be no kitchen room below the mezzanine floor.
- 25. The trade license, C.F.O.'s requirement letter and consumer number along with name of the distributor / company supplying the LPG cylinder and maintaining installation shall be displayed at the prominent place on the premises.
- 26. L.P. Gas leak detector shall be installed near gas installation so as to give alarm for leakage.
- 27. Two dry chemical powder type fire extinguisher of 10 kg capacity each with ISI certification mark and two buckets filled with dry clean sand shall be kept on the premises.

28. The user shall get the inspection of the cylinder manifold, distribution piping, safety system, equipment, valves fittings etc, done once a year from authorized distribution agency and the records of the same shall be maintained. A certificate to that effect shall be submitted to M.O.H. at the time of renewal of the trade License. M.O.H. shall ensure the same before renewal of Trade License.
29. All the above said requirements shall be fulfilled before the use of L P Gas.
30. The compliance of the Fire safety measures/ requirements which is mandatory from fire safety point of view, shall indemnify and in case of default, the user is liable for prosecution.
31. M.O.H. of the concerned Ward shall verify the submission of test certificate from authorized distribution agency before renewal of Trade License.
32. MCGM/ Fire Brigade dept. reserves the right to change / alter / add / delete the terms and condition of this NOC. Internal layout & construction, addition & alteration, existing mezzanine floor shall be got approved from A.E. (B&F) of the concerned ward.
33. Authenticity of the area, premises, structure, trade activity and other approvals shall be verified and confirmed by the concern M.C.G.M. authorities.
34. The fire safety measures/ requirements issued for the use of L.P. gas cylinder, if fulfilled, the MOH shall confirm the compliance before renewing/ issuing Trade license.
35. These remarks are offered from the fire risk point of view only and validity subject to final verdict of any legal consequences pending thereto.”

Safety Precautions:

A In case of leakage of L.P. Gas:

1. Close the main valve of the cylinder at regulator assembly. In case of leakage from main valve of the cylinder, fix the safety cap of the cylinder in its place so as to stop the leakage & the cylinder shall be moved to an open space.
2. Ventilate the premises by opening all the doors, windows.
3. Do not operate (ON or OFF) any electrical switch. Let it be as it is.
4. Avoid any ignition source such as any naked flame, lighting match stick, gas lighter, any type of spark. Put out the any lighted flame in close vicinity.
5. Evacuate the premises.
6. If you cannot stop the leakage, inform Fire Brigade and your L.P. Gas dealer.

B In case of fire at supply pipe / tube:

1. Inform Fire Brigade immediately and evacuate the premises as early as possible.
2. Till Fire Brigade arrives try to close the Gas supply by turning off the main valve at regulator assembly /manifold.
3. Do not put out the flame until you shut off the main valve (supply of the gas).
4. Once the gas supply is shut off, try to put out the flame by smothering with wet cloth, bucket of water or using fire extinguisher.

Above mentioned fire safety measures have been stipulated irrespective of ascertaining area authenticity. However same shall be checked & verified by the concerned authority of MCGM.

All the premises who comply are requested to put up board at prominent location at the entry in English and Marathi stating that “This premises is fire safety compliant” and “हा परिसर अग्नि सुरक्षिततेच्या दृष्टीने परिपूर्ण आहे.”

DI FIRE SAFETY REQUIREMENTS FOR USE OF “MORE THAN 2 LPG CYLINDERS”:

1. The entrance, exit, passage shall be kept free from any obstruction.

2. A clear passage of at least one meter width shall be kept from entrance to the rear side.
3. Rear side exit of the premise shall be kept open during all the working hours.
4. The entire electric wiring shall be laid in metal conduit or fire retardant material as per ISI standard conduit, continuously bonded to earth (MCB/R.C.C.B. shall be provided).
5. The electric mains shall be switched off daily before closing the premises.
6. No storage of any kind shall be done within the radius of one meter from any electric wiring and/or electric installations.
7. Good housekeeping shall be maintained on the premises. All inflammable packing and other material should be removed time to time.
8. The total area of the kitchen room should not be less than 150 sq. feet.
9. Stationary installations above 40 kgs but not exceeding 1000 kgs shall be installed outdoors on the ground level only. A minimum distance of 03 mtrs shall be maintained between an installation & any building, public place, road ways, & other surroundings. The installations shall be protected from excessive weathering by sun, rain etc. & from tampering by unauthorized persons. A lean to roof with expanded metal on angle iron framework on the sides is considered suitable for this purpose. In any case, adequate ventilation at ground level to outside air shall be provided.
10. The position of the cylinders shall facilitate:
 - a. Changing and quick removal of any cylinder in case of necessity, access to cylinder valve connections and regulating devices.
 - b. Cylinders shall be installed upright with the valves uppermost.
 - c. Cylinders shall not be installed or used below ground level, in cellars or basements.
 - d. Cylinders shall not be installed at a place where they may be overheated, for example, close to steam pipes and boilers.
 - e. Cylinders shall not be installed at a place where they are likely to cause an obstruction, to be damaged or to be exposed to conditions likely to affect their safety.
 - f. Cylinders shall be located on a concrete or brick floor, preferably raised in case of outdoor installations.
 - g. In order to prevent the hazardous collection of gas, cylinders shall be placed at least 1 m away from culverts, depressions, or openings leading to below ground level compartment, and drains.
11. The cooking burners shall be restricted to 1 To 12 or more in numbers in numbers and shall be kept on the raised non combustible platform and shall be kept at least one metre apart.
12. The entire gas installation i.e. regulator, other fixtures shall be carried out under the supervision of a qualified engineer from any one of the public utility company confirming to the rules for commercial and industrial use of L.P. gas.
13. Installations on which flexible hose is used shall satisfy the following conditions:
 - a) The cylinder and the appliances connected to it shall be in the same room .
 - a. The length of hose shall be kept as short as possible and should normally not exceed 2 meters.
 - b. The appliances connected shall be of portable type and not mounted in a fixed position.
 - c. Flexible hose shall not be extended from one room or verandah or one space to another and therefore shall not be passed through doors, windows, walls, partitions, ceilings, or floors.
 - d. Flexible hose shall be accessible for easy inspection and shall not be connected from view in walls, cupboards, cabinets and other obstructions.
 - e. Flexible hose shall not be used in conditions where ambient temperature exceeds 52°C.
 - f. Flexible hose shall be so installed that it is not twisted, looped or kinked and is not subjected to any external pressure. Periodic inspection to be carried out by the supplier of the gas.

14. Appliances which are rigidly fixed in position shall be connected by means of rigid piping. Appliances which are portable, if connected to rigid piping, shall be connected through flexible or semi-flexible connections.
15. Piping :
- a. Piping shall be free internally & externally of cutting burrs, loose scales, dirt, dust, & other foreign matter before the installations in completed.
 - b. It is recommended that, where possible, joints should not be placed beneath ground level in accessible places, confined places (for example, cellars), air or ventilating ducts, space under flooring or lift shafts.
 - c. If joints have to be used in piping beneath ground level in inaccessible places or confined places, they shall be welded or brazed to minimize the risk of leakage which may lead to hazardous collection of gas.
 - d. Where welded or brazed joints are used, they shall be of adequate mechanical strength and for fire resistance, the material used for welding or brazing shall have a minimum melting point of 540°C.
 - e. Joints other than welded or brazed shall be readily accessible.
 - f. Piping shall be so located or protected so as to avoid extremes of temperature which might give rise to condensation or cracking of the gas.
 - g. Provision shall be made to avoid damage to the piping from its expansion, contraction & vibration & by settlement of the building by which it is carried.
 - h. Piping shall be protected against corrosive atmospheres & materials.
 - i. As far as possible, concealed piping shall be avoided, if concealed piping is used, it shall be protected against inadvertent damage, such as from nails & knoks, by its location, type of material used for sheathing.
 - j. Piping shall not be run in or through an air or ventilating duct, chimney, flue or lift shaft.
 - k. Piping up to an outside diameter of 12 mm shall be supported at intervals of about 50 cm by means of pipe saddles or clamps in a way to avoid sagging and shifting, For larger diameter pipes, suitable longer supporting intervals may be used.
 - l. It is recommended that if the pipes are run along the surface of a structure, the supports should be so designed that the joints are sufficiently clear of the surface to permit the use of tools without damage to the surface.
 - m. It is recommended that when installing pipes along the surface of a structure, the installation is done in such a way that moisture is not trapped between surface & the pipeline.
 - n. It is recommended that the piping passing through the walls should be protected by a covering sleeve. It is necessary to pack the space between the piping & the sleeve, a moisture proof material which does not corrode the piping shall be used.
 - o. The distance between gas piping & electrical wiring system shall be at least 60 mm & where necessary, they shall be securely fixed to prevent contact due to movement. The gas piping should run below the electrical wiring.
 - p. The distance between gas piping & steam piping, if running parallel shall be at least 150 mm. The gas piping should preferably run below the steam piping.
 - q. Suitable line shut off valves shall be fitted for each appliance or burner.
 - r. A main valve shall be fitted in the piping as near as possible to its point of entry into the building. It shall be enclosed in metal box with a glass frontage.
 - s. It is recommended that the number of fittings used in an installation should be kept to a minimum in order to reduce the risk of gas leakage. As far as possible, straight lengths of piping should be used. Where there are bends in the pipeline, these should have a radius of at least five times the diameter of pipe.
 - t. The open ends of piping & fittings (with the exception of terminal taps or valves in regular use) shall always be made gas tight by means of either an appropriate terminal fitting or a

- plug, welded or brazed in position. Welding or brazing material shall have a melting point of at least 540°C.
- u. Hammering over the ends of piping or plugging with wood as a means sealing shall not be allowed.
16. All the parts of the installations including piping, manifold and other accessories shall be as per relevant I.S. Standards. [IS 6044-1 (2000)].
 17. Empty cylinders shall be replaced by an experienced delivery person / worker from the authorized gas distributing company and no naked light shall be kept "ON" when the L.P.G. cylinder is replaced.
 18. No spare/loose cylinder more than what is permitted to be kept anywhere on the premises.
 19. No other fuel such as kerosene, diesel oil, coal, coke, firewood, C.N.G. etc. shall be permitted in the storage area.
 20. Premises shall be kept well ventilated.
 21. Metal hood shall be provided over the burners and shall be connected to the ducting and the outlet of the ducting shall be extended at least one meter above the height of the structure.
 22. Dwellings, smoking, use of naked light/flame (other than permitted) shall be prohibited on the premises.
 23. Storage of any other inflammable substances shall be strictly prohibited on the premises.
 24. No loft or mezzanine floor shall be erected unless prior approval from competent authorities. If loft is approved, there shall be no kitchen room below the loft and loft shall only be used for storage purpose. If mezzanine floor is approved, there shall be no kitchen room below the mezzanine floor.
 25. The trade license, C.F.O.'s requirement letter and consumer number along with name of the distributor / company supplying the LPG cylinder and maintaining installation shall be displayed at the prominent place on the premises.
 26. L.P. Gas leak detector shall be installed near gas installation so as to give alarm for leakage.
 27. Four Dry Chemical Powder type fire extinguisher of 09 kg capacity each with ISI certification mark and two buckets filled with dry clean sand shall be kept on the premises.
 28. The user shall get the inspection of the cylinder manifold, distribution piping, safety system, equipment, valves fittings, etc. done once a year from authorized distribution agency and the records of the same shall be maintained. A certificate to that effect shall be submitted to M.O.H. at the time of renewal of the Trade License. M.O.H. shall ensure the same before renewal of Trade License.
 29. All the above said requirements shall be fulfilled before the use of L P Gas.
 30. The compliance of the Fire safety measures/ requirements which is mandatory from fire safety point of view, shall indemnify and in case of default, the user is liable for prosecution.
 31. M.O.H. of the concerned Ward shall verify the submission of test certificate from authorized distribution agency before renewal of Trade License.
 32. MCGM/ Fire Brigade dept. reserves the right to change / alter / add / delete the terms and condition of this NOC. Internal layout & construction, addition & alteration, existing mezzanine floor shall be got approved from A.E. (B&F) of the concerned ward.
 33. Authenticity of the area, premises, structure, trade activity and other approvals shall be verified and confirmed by the concern M.C.G.M. authorities.
 34. The fire safety measures/ requirements issued for the use of L.P. gas cylinder, if fulfilled, the MOH shall confirm the compliance before renewing/ issuing Trade license.
 35. These remarks are offered from the fire risk point of view only and validity subject to final verdict of any legal consequences pending thereto."

Note: The supply of Liquified petroleum gas to non- domestic category shall be made in 17 kg/ 19 kg/ 33 kg/47.5 kg capacity cylinder or in such capacity cylinders as may be notified by the Central Government from time to time.

Safety Precautions:

A In case of leakage of L.P. Gas:

1. Close the main valve of the cylinder at regulator assembly. In case of leakage from main valve of the cylinder, fix the safety cap of the cylinder in its place so as to stop the leakage & the cylinder shall be moved to an open space.
2. Ventilate the premises by opening all the doors, windows.
3. Do not operate (ON or OFF) any electrical switch. Let it be as it is.
4. Avoid any ignition source such as any naked flame, lighting match stick, gas lighter, any type of spark. Put out the any lighted flame in close vicinity.
5. Evacuate the premises.
6. If you cannot stop the leakage, inform Fire Brigade and your L.P. Gas dealer.

B In case of fire at supply pipe / tube:

1. Inform Fire Brigade immediately and evacuate the premises as early as possible.
2. Till Fire Brigade arrives try to close the Gas supply by turning off the main valve at regulator assembly / manifold.
3. Do not put out the flame until you shut off the main valve (supply of the gas).
4. Once the gas supply is shut off, try to put out the flame by smothering with wet cloth, bucket of water or using fire extinguisher.

Above mentioned fire safety measures have been stipulated irrespective of ascertaining area authenticity. However same shall be checked & verified by the concerned authority of MCGM.

All the premises who comply are requested to put up board at prominent location at the entry in English and Marathi stating that “This premises is fire safety compliant” and “हा परिसर अग्नि सुरक्षिततेच्या दृष्टीने परिपूर्ण आहे.”

E| FIRE SAFETY REQUIREMENTS FOR USE OF “PIPED NATURAL GAS”:

1. The electric wiring shall be laid in metal conduit pipes, which shall be continuously bonded to the earth and provided with R.C.C.B/M.C.B.
2. Nothing should be stored near the electric wiring or the electrical installations.
3. Electric mains shall be switched off while closing the premises.
4. Entrance/ Exit and clear passages shall be kept free from any obstructions.
5. A clear passage of at least 1.5 meter shall be maintained from front to rear in the kitchen in all areas.
6. No any other fuel such as kerosene oil, coal, diesel oil, L.P. Gas etc. other than permitted (i.e. P.N. gas) shall be used in the kitchen
7. Flooring in the premises shall be maintained free from spillages. Wastages shall be collected in the metal bin with lid and disposed off daily. Good housekeeping shall be maintained on the premises with proper ventilation.
8. No loft shall be constructed on the premises without prior permissions of concerned competent Municipal Authorities.
9. The preparation of the food shall be carried out in the preparation area only and the locations of the burners shall be as shown in attached approved plan.
10. The natural gas shall be piped in the preparation area and to the burners restricted to “1 to 12 or more” as per plan and same shall be installed on a non-combustible type raised

platform/cooking range/apparatus, all the burners shall be provided independent shut off valve.

11. All the installations for P.N. Gas supply pipeline with burners and other accessories shall be as per the norms of M/s Mahanagar Gas Limited Company. The natural gas installation shall be laid as per details shown in enclosed plan approved by M/s M.G.L.
12. The isolation valve near the entrance gate on the public road shall be provided and the location shall be shown on the enclosed plan by M/s. Mahanagar Gas Ltd.
13. The shut off valve of the M.R.S. shall be easily accessible and shall be clearly marked as such in English and Marathi language.
14. The M.D.P.E. pipeline from the street to M.R.S. having 10 cms. Diameter shall be laid underground and the overlay shall not be less than 1000 mm.
15. The M.R.S. Cabin shall be provided with ventilation at the ground level and also at the roof level, so as to vent out the natural gas easily in case of leakage.
16. The slam shut valve provided for the downstream at the M.R.S. at easily accessible location & shall be so calculated that it shall automatically stop the flow of natural gas downstream, in case the pressure exceed 20% of the normal discharge of 500 millibar.
17. On the M.R.S. Cabin, the following instructions shall be inscribed in English and Marathi languages.
 1. DANGER FLAMMABLE GAS.
 2. EMERGENCY TELEPHONE Nos.
 1. MAHANAGAR GAS LTD.,
 2. MUMBAI FIRE BRIDGE No.101 OR 23085991 - 2 - 3 - 4
 3. NO SMOKING OR SPARKS OR NAKED FLAME WITHIN RADIUS OF 1.5 METERS FROM PNG PIPE LINE.
18. The shut off valve at the P.R.S. shall also be easily accessible, and shall be marked as indicating the direction of opening as well as closing.
19. The steel pipeline from the M.R.S. to the end use point shall be seamless type with only weld joints Welded screwing pipeline shall not be permitted.
20. The steel pipeline shall be capable of and tested for three times the normal operating pressure.
21. The steel pipeline shall be painted in bright yellow and the words "Natural Gas" shall be stencilled in Marathi and English at the intervals of two meters. The stencilled inscriptions shall be conspicuously visible.
22. The steel pipeline shall not be laid across or below the steam pipeline or electrical line. However, the Natural Gas pipeline may be laid above and steam pipeline or electrical lines in parallel to the same. It shall be protected from any source of heat or flame directly.
23. Nothing shall be stored or kept within one meter radius of the natural gas pipeline.
24. The shut off valve shall be easily accessible and shall be conspicuously visible, so as the enable anyone to operate the same without any difficulty in the event of an emergency.
25. Only authorized personnel should be allowed to have access to the M.R.S./ P.R.S. which should be kept under lock and key.
26. The entire installation including downstream pipework etc. shall be got inspected, verified that the same is complying with the statutory safety norms by M/s. M.G.L. before commissioning the installation.
27. The entire installation shall be got inspected by M/s. M.G.L. at least once in a year and a certificate to the effect that as the installation is fit for its purpose shall be obtain and shall be

- submitted to M.O.H. of G/North Ward and Chief Fire Officer's dept. at the time of renewal of license.
28. **'NO SMOKING'**, exit, emergency exit and way to exit' board shall be displayed conspicuously on the premises.
 29. The word **'EXIT'** along with the arrows leading to it should be painted with luminous paint.
 30. No change shall be made in the approved layout without prior permission of competent authorities.
 31. An exhaust fans of suitable size and capacity shall be provided on each external wall of the Kitchens for dissipation of the Heat, smoke and cooking gases and same shall be kept running during the working hours.
 32. Metal hood with metal ducting and exhaust fan of suitable capacity shall be provided over the burners,fryers,ovens etc. for dissipation of heat, smoke with chimney at least two meters above the terrace level and same shall be adequately supported. It shall be provide with inspection hole, cleaning chain and spark arrester. The layout and design of the installation shall be as per specification of the Chief inspector steam and boiler (Smoke and Heat nuisance department),Mumbai state,Worli.
 33. Quantities of the following ancillary commodities shall be restricted to a) Edible oil = 50 Kgs. B) Vanaspati Ghee = 50 Kgs. only, same shall be kept in well stopper containers in separate store away from any source of heat/flame.
 34. Following fire extinguishers bearing IS specification Mark shall be provided in the Kitchen area.
 - a. Two water type (A Class) Fire extinguishers of 9 litre capacity and One Dry Chemical Powder (ABC type) fire extinguisher of 9 kg capacity shall be provided in the kitchen.
 - b. One Dry Chemical Powder (ABC type) fire extinguisher of 9 kg capacity & Two Sand Buckets filled with dry and clean sand shall be kept near M.R.S. cabin.
 35. The emergency telephone nos. of fire brigade control room shall be displayed on the premises (101, 23076111, 23085991/2/3/4.).
 36. All the staff shall be trained about the hazardous properties of the natural gas, safety aspects and the procedures to be followed in the event of any emergency and shall be trained in the use of portable fire extinguishers.
 36. All the above said requirements shall be fulfilled before the use of piped Gas.
 37. The compliance of the Fire safety measures/ requirements which is mandatory from fire safety point of view, shall indemnify and in case of default, the user is liable for prosecution.
 38. M.O.H. of the concerned Ward shall verify the submission of test certificate from authorized agency before renewal of Trade License.
 39. MCGM/ Fire Brigade dept. reserves the right to change / alter / add / delete the terms and condition of this NOC. Internal layout & construction, addition & alteration, existing mezzanine floor shall be got approved from A.E. (B&F) of the concerned ward.
 40. Authenticity of the area, premises, structure, trade activity and other approvals shall be verified and confirmed by the concern M.C.G.M. authorities.
 41. The fire safety measures/ requirements issued for the use of piped. gas cylinder, if fulfilled, the MOH shall confirm the compliance before renewing/ issuing Trade license.
 42. These remarks are offered from the fire risk point of view only and validity subject to final verdict of any legal consequences pending thereto."

Safety Precautions:

A In case of leakage of Gas:

1. Close the main valve.
2. Ventilate the premises by opening all the doors, windows.
3. Do not operate (ON or OFF) any electrical switch. Let it be as it is.
4. Avoid any ignition source such as any naked flame, lighting match stick, gas lighter, any type of spark. Put out the any lighted flame in close vicinity.
5. Evacuate the premises.
6. If you cannot stop the leakage, inform Fire Brigade and M.G.L.

B In case of fire at supply pipe / tube:

1. Inform Fire Brigade immediately and evacuate the premises as early as possible.
2. Till Fire Brigade arrives try to close the Gas supply by turning off the main valve.
3. Do not put out the flame until you shut off the main valve (supply of the gas).
4. Once the gas supply is shut off, try to put out the flame by smothering with wet cloth, bucket of water or using fire extinguisher.

Above mentioned fire safety measures have been stipulated irrespective of ascertaining area authenticity. However same shall be checked & verified by the concerned authority of MCGM.

F] FIRE SAFETY REQUIREMENTS FOR USE OF “ELECTRICAL EQUIPMENT/ APPLIANCES”:

1. Entrance, Exit shall be kept unobstructed at all the time.
2. A clear passage having one meter width from entrance to exit or rear wall shall be kept unobstructed at all the time.
3. The additional exit shall be provided for the kitchen/manufacturing of sweet meat or eatables room /area.
4. Electric wiring shall be laid in metal/PVC conduit continuously bonded to earth.
5. Electric main shall be switched off daily before closing the premises.
6. Nothing shall be kept in the radius of one meter from any electric wiring and /or installation.
7. No loft and /or wooden partition shall be erected on the premises without having prior permission of the CFO's Department
8. Cooking/heating preparation of eatable shall be strictly prohibited at the entrance of the premises.
9. All electrically operated heating equipment shall have approved thermostat valve incorporated with it.
10. All the electrical equipment shall be kept on a non combustible platform and shall be properly earthed.
11. Except the above mentioned permitted electrical equipment, use of any other fuel like L.P. Gas, Kerosene oil etc. shall not be kept or used for the preparation of the eatables.
12. The overall electromotive power required for the appliances/machines shall not exceed than 1 H.P. If it so then necessary permission U/s 390 of MMC act shall be obtained.
13. Red pilot lamp shall be introduced in the electric circuit of an electric hot plate/oven and for each electrical appliance separately.
14. Thermostatic control valve shall be provided for all electrical heating appliances.

All the premises who comply are requested to put up board at prominent location at the entry in English and Marathi stating that “This premises is fire safety compliant” and “हा परिसर अग्नि सुरक्षिततेच्या दृष्टीने परिपूर्ण आहे.”
