

# SIOM REALTY PRIVATE LIMITED

CIN- U70101WB2005PTC101917

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To  
The Authority  
WBRERA  
Kolkata

**Subject: Project being "Mani Casa 2" situated at Mouza - Chakpachuria, J.L. No. 33, Police Station - New Town, District North 24 Parganas, Kolkata - 700156, West Bengal.**

**Ref: Fire Recommendation having Memo No. FSR/0125186211100496 dated 26-07-2021 and Revised FSR/0125186211100496 dated 28-09-2022.**

Dear Sir,

This is for your kind information that we are developing a Residential project namely "**Mani Casa 2**" situated at Mouza - Chakpachuria, J.L. No. 33, Police Station - New Town, District North 24 Parganas, Kolkata - 700156, West Bengal and having measuring a land area of 7,947.57 sq. mtr. (approx).

Block Details of the aforesaid project "Mani Casa" are as follows:-

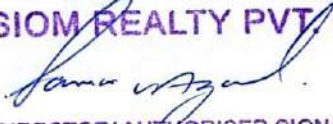
Block A : B+G+12  
Block B : B+G+25  
Block C : B+G+18

Further, we have already obtained the Fire NOC as referred hereinabove from the W.B.Fire and Emergency Services which is also enclosed herewith (**Marked as Annexure - A**).

Thanking you,

For **Siom Realty Pvt Ltd**

**SIOM REALTY PVT LTD.**

  
**DIRECTOR/ AUTHORISED SIGNATORY**

**Director**  
**Sameer Vikram Agarwal**  
**DIN-00453254**

**Place: Kolkata**  
**Date: 27<sup>th</sup> day of February, 2023.**



Government Of West Bengal  
Office Of The Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186211100496

Date: 28-09-2022

From:  
Director  
Fire Prevention Wing,  
West Bengal Fire & Emergency Services

To: MANI VATIKA PRIVATE LIMITED & 21 OTHERS.  
9 (IT) FLOOR, MANI SQUARE MALL, 164/1, MANICKTALA MAIN ROAD, KOLKATA 700054

Sub: Revise Fire Safety Recommendation for a proposed project comprising of 3 nos. residential tower namely Block-A (B+G+12), Block-B (G+25) and Block-C (G+18) over a common Basement which will be constructed at Mouza- Chakpachuria, J.L.No.- 33, Dag Nos.- 229, 230, 231, 232, 233, 235, 236, 263, 226, 224, recorded under Khatian Nos.- 2631, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2647, 2648, 3988, 3990, 4002, 4003, 4007, 4008, under Patharghata Gram Panchayat, P.S.- New Town, Dist.- 24 Pgs (N), Kolkata- 700135.

This is in reference to your application no. 0125188221100102 dated 19-08-2022 regarding the Revise Fire Safety Recommendation for a proposed project comprising of 3 nos. residential tower namely Block-A (B+G+12), Block-B (G+25) and Block-C (G+18) over a common Basement which will be constructed at Mouza- Chakpachuria, J.L.No.- 33, Dag Nos.- 229, 230, 231, 232, 233, 235, 236, 263, 226, 224, recorded under Khatian Nos.- 2631, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2647, 2648, 3988, 3990, 4002, 4003, 4007, 4008, under Patharghata Gram Panchayat, P.S.- New Town, Dist.- 24 Pgs (N), Kolkata- 700135.

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this office is issuing **Revised Fire Safety Recommendation** in favor of the aforesaid building subject to the compliance of the following fire safety measure.

**Recommendation:**

1.The plan drawing submitted by you was scrutinized and marked as found necessary from fire safety point of view. In returning one set of plan, this office is issuing Revise Fire Safety Recommendation in favor of the aforesaid building subject to previous Fire Safety Recommendation this office memo no. FSR/0125186211100496 dated- 26.07.2021 strictly to be followed. The following additional Fire & Life Safety measures have to be complied according to current status of the building:

- a)CO sensor shall be installed in the basement in adequate manner as per relevant I.S. Specification.
- b)Hydrant outlet, Hose Reel Hoses shall be provided at basements as per I.S. Specifications.
- c)Over head water reservoirs for exclusively Fire Fighting purpose shall be provided as shown in the plans.

Signature Not Verified  
Digitally signed by ABHIJIT  
PANDEY  
Date: 2022.09.28 12:48:36 IST

Director  
West Bengal Fire & Emergency Services

Memo No.: FSR/01251862/100496



Government Of West Bengal  
Office Of The Director General  
West Bengal Fire & Emergency Services  
13D, Mirza Ghalib Street, Kolkata - 16

Memo no.:FSR/0125186211100496

Date: 26-07-2021

**From:**  
**Director**  
**Fire Prevention Wing,**  
**West Bengal Fire & Emergency Services**

**To: MANI VATIKA PRIVATE LIMITED & 21 OTHERS.**  
**9 (IT) FLOOR, MANI SQUARE MALL, 164/1, MANICKTALA MAIN ROAD, KOLKATA 700054**

**Sub: Fire Safety Recommendation for proposed construction of Residential Complex comprising of one B+G+ XII storied (BLOCK-A), one B+G+XXII storied (BLOCK-B) and B+G+XVIII storied (BLOCK-C) building under group of occupancy Residential building at premises no. Mouza- CHAKPACHURIA, J. L. No. 33, DAG No. 229, 230, 231, 232, 233, 235, 236, 263, 226, 224, Khatian No. 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2647, 2648, 3988, 3990, 4002, 4003, 4007, 4008, P. S. Newtown, Rajarhat, Kolkata- 700135, Dist.- North 24 Parganas.**

This is in reference to your application no. 0125186211100496 dated 02-07-2021 regarding the Fire Safety Recommendation for proposed construction of Residential Complex comprising of one B+G+ XII storied (BLOCK-A), one B+G+XXII storied (BLOCK-B) and B+G+XVIII storied (BLOCK-C) building under group of occupancy Residential building at premises no. Mouza- CHAKPACHURIA, J. L. No. 33, DAG No. 229, 230, 231, 232, 233, 235, 236, 263, 226, 224, Khatian No. 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2647, 2648, 3988, 3990, 4002, 4003, 4007, 4008, P. S. Newtown, Rajarhat, Kolkata- 700135, Dist.- North 24 Parganas.

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

**Recommendation:**

**CONSTRUCTION :**

- 1.The whole construction of the proposed buildings shall be carried out as per approved plan drawings conforming the relevant buildings rules of local body.
- 2.The floor area shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity as per NBC Part - IV 2016.
- 3.The interior finish decoration of the buildings shall be made low flame spread materials conforming I.S. specifications.

4. Arrangements shall have to be made for sealing all the vertical and horizontal ducts, shafts by the materials of adequate Fire resisting capacity.

#### OPEN SPACE & APPROACH :

1. The open space surrounding the buildings shall conform the relevant buildings rules as well as permit the accessibility and maneuverability of Fire appliance with turning facility.
2. The approach roads & internal driveway shall be sufficiently strong to withstand the load of Fire Engine weighting up to 45 M.T.
3. The width and height of the access gates into the premises shall not be less than 5.0 Mts. and 5.0 Mts respecting abutting the road.

#### STAIRCASE :

1. The staircase of the buildings shall be enclosed type. Entire construction shall be made of bricks/R.C.C. type having Fire resisting capacity not less than 2 hours.
2. The staircase of the buildings shall have openable sashes at each floor level on the external wall of the buildings.
3. The width of the staircases shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant buildings rules with up to date amendment.
4. All the staircases shall be extended up to the terrace of the buildings and shall be negotiable to each other without entering into any room.
5. Staircases to be pressurized as marked in the plan & pressure difference shall be 50Pa. as per N.B.C. Part – IV 2016 in Block B & Block C.
6. Fire and smoke doors at the entrances of all the staircase enclosures as marked in the plan at each floor level shall be provided. All F.C.D. along with its fittings shall be of at least two hour Fire resisting wire glass window fitted with self-closing type openable in the direction of escape.
7. The firefighting shaft in Block B & Block C shall necessarily have connectivity directly to exit discharge or through exit passageway (having 120 min fire resistance wall with F.C.D.) to exit discharge.
8. Staircase lobby of a firefighting shaft shall be smoke controlled as marked in the plan.
9. Pressurization requirement for staircase in firefighting shaft and for other fire exit staircases in buildings (Block B & Block C) be evaluated to limit the force required to operate the door assembly (in the direction of door opening) to not more than 133 N to set the door leaf in motion. The aspect of pressurization, door area/width and door closure shall be planned in consideration to the above.

#### BASEMENT:

1. The basement shall be adequately ventilated with aggregate cross sectional area of not less than 2.5% of the area spread evenly round the perimeter of the basement shall be provided in the form of grills.
2. Mechanical smoke venting arrangements shall be provided to all the basements confirming the I.S. specification.
3. The exit from the basement shall be from open Air and from any points the travel distance shall not exceeds the required travel distance to reach any exit.
4. The basement floor shall be protected with automatic sprinkler system

#### LIFT :

- 1.The walls of the lift enclosure shall be at least two hours Fire resisting type. Collapsible gate shall not be permitted.
- 2.Lift shall be designed as Fire Lift. The word "FIRE LIFT" shall conspicuously written in fluorescent paint on the lift landing doors at each floor level.
- 3.Fire lift lobby of a firefighting shaft shall be smoke controlled as marked in the plan. Lift lobby of fire fighting shaft at all levels to be pressurized (25-30 Pa) as per N.B.C. Part – IV 2016.
- 4.Alternate source of power supply shall be provided for all lifts through manually operated change over switch.
- 5.In case of failure normal electric supply it shall automatically trip over to alter supply.
  
- 6.The Speed of the fire lift shall be such that it can reach the top floor from ground level within one minute.
- 7.Lift communication system shall be provided in the lift and this system shall be connected to fire control room of the buildings.

#### REFUGE AREA :

- 1.Refuge area is not less than 15sqm. Shall be provided on the external wall with cantilever projection or other suitable means as shown/ marked in the plan.
- 2.The refuge area shall be of Fire Resisting construction and protected with self closing F.C.D. at the entrance from the corridor or the staircase lobbies.
- 3.Each refuge area shall be ventilated and provided with sprinklers, first aid box, fire extinguishers, public address speaker, fire man talk back, and adequate emergency lighting as well as drinking water facility.
- 4.The position of Refuge areas shall be such that they are negotiable by the fire service ladder from the ground as marked in the plan.

#### FIRE FIGHTING WATER :

Underground water reservoir having water capacity of 2,00,000Ltrs. and overhead reservoir of 10,000 Ltr. capacity on each building as marked/shown in the plan exclusively for Fire Fighting purpose with replenishing arrangement @ 1000 Ltr. /Min. preferably from two different sources of water supply shall be provided. The Fire Water Reservoir shall have overflow arrangement with the domestic Water Reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all time.

#### HYDRANT SYSTEM:

- 1.The buildings shall be provided with Wet Riser of 150 mm internal diameter pipe line with provision of landing valves at the staircase landing/half landings (one wet riser must have to be provided at the fire fighting shaft staircase area) at the rate of one such riser for 1000 Sq.Mt. of floor area. The system shall be so designed that be kept charged with water all the time under pressure and capable to discharge 2850 Ltr./Min. at the ground floor level outlet and minimum 900 Ltr./Min. at the top most outlet. In both cases the running pressure shall not be less than 3.5 Kg./Sq.cm. All other requirements shall conform I.S. 3844-1989.

2. Provision for Hose Reel in conjunction with Wet Riser shall be made at each floor level of all buildings conforming the relevant I.S. specification.
3. Wet risers shall be interconnected at the terrace level & cut –off shall be provided for each connection to enable repair / maintenance without affecting rest of the system.
4. Yard Hydrant & Ring Main Hydrant with provision of adequate numbers Hydrant alongwith Fire Service inlet shall be installed surrounding the buildings in accordance with relevant I.S. specification.

#### SPRINKLER INSTALLATION :

The automatic Sprinkler installation shall be provided in all floor areas including Basement of Block B and Block C and in the basement car parking area of Block A as per I.S. 9972. Alarm gang to be incorporated along with the sprinkler system. Sprinkler flow switches shall be monitored by fire alarm panel.

#### FIRE PUMP :

1. Provision of the Fire Pump shall have to be made to supply water at the rate-designed pressure having delivery capacity 2850LPM and discharge into the water based system, which shall be installed in the buildings. One such pump shall always be kept on Stand-by preferably be diesel driven type.
2. Separate fire pumps shall be made for the total Sprinkler installation of the building having delivery capacity 2850LPM.
3. Provision of Jockey Pumps shall also have to be made to keep the Water based system under pressurized condition at all the time. All the pumps shall be incorporated with both manual and auto starting facilities.
4. To avoid high pressure in lower levels of wet riser in the building multi stage, multi -outlets pumps (Creating pressure zones) or variable frequency drive pumps or any other suitable arrangement to be Provided as per N.B.C. Part – IV 2016.
5. One set of pumps shall be provided for each 100 hydrants or part there off with a maximum of two sets alternatively it can be met by providing additional diesel pump of the same capacity and doubling the fire water tank capacity as per N.B.C. Part – IV 2016.

#### ELECTRICAL INSTALLATION & DISTRIBUTION :

1. The electrical installation including transformers, Switch Gears, Main & Meters etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire Safety in general buildings as laid down in the I.S. specification 1946-1982 and Part 8 'Building Services, Section 2 Electrical and Allied Installations' of the Code.
2. Wiring and cabling are with flame retardant property.
3. Cables for fire alarm and PA system shall be laid in metal conduits or armoured to provide physical segregation from the power cables.
4. High, Medium and low voltage wiring running in shafts, and within false ceiling shall run in metal conduit. Any 230 V wiring for lighting or other services, above false ceiling, shall have 660 V grade insulation.
5. The electric distribution cables/wiring shall be laid in a separate shaft.
6. Use of bus ducts/solid rising mains instead of cables is preferred.
7. All metallic items like steel structural members, etc, shall be bonded properly to the earthing system.
8. Water mains, gas pipes, telephone lines, intercom lines or any other service line shall not be laid in the duct for electrical cables.
9. The ducts shall be supply sealed at every floor with fire stop materials having the same fire resistance as that of the floor.

10. Electrical MV main distribution panel and lift panels shall be provided with CO2/inert gas flooding system for all panel compartments with a cylinder located beside the panel.

11. The electrical installation shall be adequately protected with CO2/D.C.P. or Medium Velocity Projector System.

12. The location of the panel/ distribution board feeding the fire and life safety system shall be in fire safe zone ensuring supply of power to these systems.

Alternative Power Supply— Arrangement shall be made to supply power with the help of a generator to operate at least the Fire pump, Pump for the deep tube well, Fire Alarm system, etc. and also for illuminating the staircase, corridors etc. and other place of assembly of the building in case of normal power failure. The generator shall be capable of taking starting current with auto change over facility of all the fire

life safety systems and equipment. Circuits of such emergency system shall be protected at origin by an automatic circuit breaker with its

No-volt coil removed. Master switches controlling essential service circuits shall be clearly labelled.

Arrangements shall have to be made to supply power with help of a generator to operate at least Fire Pumps, Pressurization and smoke venting (including its ancillary systems such as dampers and Actuators), All lifts, Exit signage lighting, Emergency lighting, Fire alarm system, Public address (PA) System (relating to emergency voice evacuation and annunciation), Magnetic door hold open devices, Lighting in fire command centre and security room etc. and also for illuminating the Staircase, Corridors, Passage & Lobby areas, fire refuge areas and other places of assembly of the buildings in Case of normal power failure.

#### DETECTION AND ALARM:

1. Auto Fire Alarm System which analogue addressable smoke/ heat detectors as per suitability shall be installed in all floor area of Block B and C except side open type car parking area.

2. Addressable analogue manual call boxes incorporating with sounders & visual strobes/beacons shall be installed in all the floor area of the buildings in such a manner that maximum travel distance shall not be more than 22.5m in order to reach any of the call point.

3. Micro Processor based fire alarm panel shall be installed and all shall also be connected with main panel at the Fire Control Room of the premises.

4. Both way Public address systems linked between all floors & fire refuge areas and Control Room shall have to be established.

5. In buildings where automatic fire alarm system is provided, the following shall be monitored from fire Alarm panel--

Water level in all tanks, Hydrant and sprinkler pressures of respective zones as provided, Pump 'ON/OFF' status, all isolation valves, wherever provided with supervisory switch (non-padlock valves), other requirements to meet electro - mechanical services interface.

6. All the installation shall also satisfy the relevant I.S. Specification.

#### AIR CONDITIONING SYSTEM: (if any)

1. The A.H.U. shall be separated for each floor with the system Air Ducts for individual floors and in no way shall interconnect with the duct of any other floor. Within a floor it would be desirable to have separate air handling unit provided



for each compartment.

2. Arrangement shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning System.

3. The system of auto shut down of A.H.U. shall be incorporated with the auto detection and alarm system.

4. The Air Handling Units room shall not be used for storage of any combustible materials.

5. Shafts or ducts, if penetrating multiple floors, shall be of masonry construction with fire damper in connecting ductwork or shall have fire rated ductwork with fire dampers at floor crossing. Alternatively, the duct and equipment may be installed in room having walls, doors and fire damper in duct exiting/entering the room of 120 min fire resistance rating. Such shafts and ducts shall have all passive fire control meeting 120 min fire resistance rating requirement to meet the objective of isolation of the floor from spread of fire to upper and lower floors through shaft/duct work.

6. The air filters of the air handling units shall be made of non-combustible materials.

7. Air ducts serving main floor areas, corridors, etc, shall not pass through the exits/exit passageway/ exit enclosure. Exits and lift lobbies, etc, shall not be used as return air passage.

8. As far as possible, metallic ducts shall be used even for the return air instead of space above the false ceiling.

9. The materials used for insulating the duct system (inside or outside) shall be of non-combustible type. Any such insulating material shall not be wrapped or secured by any material of combustible nature.

10. Inspection panels shall be provided in the ductwork to facilitate the cleaning accumulated dust in ducts and to obtain access for maintenance of fire dampers.

FIRE OR SMOKE DAMPERS :( if any )

Damper shall be of motorized type/fusible link. Damper shall be so installed to provide complete integrity of the compartment with all passive fire protection sealing. Damper should be accessible to maintain, test and also replace, if so required. Damper shall be integrated with Fire Alarm Panel and shall be sequenced to operate as per requirement and have interlocking arrangement for fire safety of the building. Manual operation facilities for damper operation shall also be provided.

FIRST AID FIRE FIGHTING SYSTEM :

First Aid Fire Fighting arrangement in the style of placing suitable type of portable Fire Extinguishers, Fire Buckets etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-2010.

SERVICE DUCTS & SHAFTS:

Openings in walls or floors which are necessary to be provided to allow passages of all building services like cables, electrical wirings, telephone cables, plumbing pipes, etc, shall be protected by enclosure in the form of ducts/shafts having a fire resistance not less than 120 min. The inspection door for electrical shafts/ducts low voltage wiring running in shafts/ducts, shall either be armoured type or run through metal conduits.

The space between the electrical cables/conduits and the walls/slabs shall be filled in by a fire stop material having fire resistance rating of not less than 120 min.

For plumbing shafts in the core of the building, with shaft door opening inside the building, the shafts shall have inspection doors having fire resistance rating not less than 30 min.

For plumbing shafts doors which open in wet areas or in naturally ventilated areas or on external wall of the building, the shafts may not require doors having any specified fire rating.

**NOTE** — In the case of buildings where it is necessary to lower or lift heavy machinery or goods from one floor to the other, it may be necessary to provide larger openings in the floor. Such openings shall be provided with removable covers which shall have the same strength and fire resistance as the floor.

**GLAZING & GLASS FAÇADE (if any) :**

1. The glazing shall be in accordance with NBC Part 6. The entire glazing assembly shall be rated as per Table 1.
2. The use of glass shall not be permitted for enclosures of exits and exit passageway.
3. For fully sprinklered building having fire separation of 9 m. or more, tempered glass in a non-combustible assembly, with ability to hold the glass in place, shall be provided. Sprinklers to be provided within 600 mm of the glass façade which to be covered full area of the said glass façade.
4. All gaps between floor slabs and façade assembly shall be sealed by approved fire sealing material of equal fire rating of that floor at all floor level.
5. Openable panels shall be provided on each floor and such openings shall be operable at a height between 1.2 mtr. and 1.5 mtr. from the floor, and shall be in the form of openable panels ( fire access panels) of size not less than 1000 mm X 1000 mm opening outwards.
6. The wordings, ' FIRE OPENABLE PANEL – OPEN IN CASE OF FIRE, DO NOT OBSTRUCT' of at least 25 mm letter height shall be marked on the internal side.
7. Such panels shall be suitably distributed on each floor based on occupant concentration & also to be located in common areas /corridors to facilitate access by the building occupants and fire personnel for smoke exhaust in times of distress.

**LPG BANK (if any) :**

1. L.P. Gas bank shall be on the ground level of the said building (except multi-storied buildings, flats housing society) which to be constructed at least 3mt. distance between an installation and any building, public place, roadways, and other surroundings. The installation shall be protected from excessive weathering by sun, rain etc. and from tampering by unauthorized person. A lean-to roof with expanded metal on angle iron framework on the sides is considered suitable for this purpose.

For multi-storied buildings, flats housing society the reticulated installation of any capacity shall be provided at a safe place specially earmarked for this purpose. The installation shall not be provided by the side of road where there is continuous movement of vehicles or is approachable to residents specially children. The installation should be secured and should be provided in a covered shed open from all sides for ventilation. The area shall be demarcated by 1.5 m high chain link

fencing having one gate. There should be minimum 3 m clear space all around the fencing and the space between the fencing and the edge of the shed should be minimum 2 m all around.

2. Adequate ventilation at ground level i.e. 100 mm above of gas bank, open to atmosphere and below ceiling level at least 500 mm long & 300 mm height (covering minimum 25 percent of wall area) to the outside air shall be provided.

3. Cylinders shall be located on a concrete or brick floor, raised minimum 100 mm from ground level in case of outdoor installations.

4. FLP fittings, approved by statutory authorities shall be provided for electrical use..

5. The controlling device of L.P.G. shall have to be placed at a far away (at least 3mtr.) from gas bank.

6. The doors of the LPG bank room to be made with non –inflammable materials which shall open outwards & shall have louvers/wire mesh to ensure visibility & ventilation.

7. L.P. Gas detector/ sensor to be installed at the kitchen & gas bank area.

8. No electrical heater, kerosene stove, opens Chula etc. shall be allowed in the kitchen where L.P.G. are in use.

9. Cylinders shall not be stored along with any combustible materials.

10. Medium velocity water spray system which can be operated by quick opening valve placed away from the said area.

11. Two buckets filled with sand & two with water shall also be installed nearby.

12. Two nos. dry powder type fire extinguisher as per I.S. 2171. of 10 K.G. capacity for LPG installations up to 200 Kg. /

Three nos. dry powder type fire extinguisher of 10 K.G. capacity for LPG installations more than 200 Kg. up to 320 Kg. /

Four nos. dry powder type fire extinguisher of 10 K.G. capacity for LPG installations more than 320 Kg. up to 1000 Kg shall be provided and shall be located near such installations (at least 3mtr. away).

13. Gas meters to be placed in a suitably constructed metal cupboard located in a well ventilated space.

14. Red Luminous letterings of minimum height of 40mm as "DANGER / HIGHLY INFLAMABLE GAS / NO SMOKING/ NO NAKED LIGHTS" on white background shall be written outside at prominent place.

15. Cylinder manifolds, Pressure regulators, Piping, valves & other requirements to be as per I.S. 6044(Part 1): 2013.

16. The colour of LPG lines shall be as per I.S. 2379.

#### GENERAL RECOMMENDATIONS :

1. Fire License shall have to be obtained for proposed storing and processing with L.P.G. and other highly combustible articles.

2. Lightning protection for buildings shall be provided as per Part 8 'Building Services', Section 2 Electrical installations.

3. All fire exit doors from the car parking to exits shall be painted green and shall display exit signage.

4. Fire fighting equipments shall be suitably located and clearly marked by luminous sign.

5. Fire Notice for Fire Fighting and evacuation from the buildings shall be prepared and be displayed at all vulnerable places of the buildings.

6. Floor numbers and directional sign of escape route shall be displayed prominently.

7. The employees and security staff shall be conversant with installed Fire Fighting equipments of the buildings and to operate in the event of Fire and Testing.

8. Arrangement shall be made for regular checking, testing and proper maintenance of all the Fire Safety installation and equipments installed in the buildings to keep them in perfectly good working conditions at all times.

9. A crew of trained Fireman under the experienced Officer shall be maintained round the clock for safety of the buildings.

10. Mock Fire practice and evacuation drill shall be performed periodically with participation of all occupants of the buildings.

11. Close circuit T.V. shall have to be provided for the entire floor area of the buildings.

12. On compliance of all the above Fire Safety recommendations, the Director General, West

Bengal Fire & Emergency Services shall be approached for necessary inspection and testing of the

installation before occupancy of the buildings; Fire Safety Certificate in favour of the occupancy shall be issued on being satisfied with the tests and performances of safety aspects of installation of the buildings.

N.B. : Any deviation and changes the nature of use of the building in respect of the approved plan drawings, without obtaining prior permission from this office, this Fire Safety Recommendation will be treated as cancelled.

Memo No. FSR/125186211100496

Signature Not Verified  
Digitally signed by ABHIJIT  
PANDEY  
Date: 2021.07.26 21:24:52 IST

Director  
West Bengal Fire & Emergency Services