

GOVERNMENT OF TELANGANA STATE DISASTER RESPONSE & FIRE SERVICES DEPARTMENT



Fire Officer Central Region, Response and Fire Services, derabad. My Home Constructions Pvt Ltd.8th H Block - 3, My Home Hub, Madhapur, Hyderabad,	Floor,
	FE1452-1562.0FE1
DEPARTMENT –Kukatpally Division. Renewal of No Objection Certificate for Occupancy to the Multi storeyed Building of M/S Little Scholars School,Plot No: A-5 (North-Eastern Part) In Survey No.59 Industrial Estate,. Ward No.7, Block No-2 Sanath Nagar Balanagar(m) Hyderabad./-Balanagar/Balanagar/Medchal, –	
1. Acknowledgement No 394650002021	26/06/2021
3. Multi storeyed Building Inspection Committee Report,. Ack. No. 394650002021 , dt. 26/06/2021	
	 Fire Officer Central Region, Response and Fire Services, derabad. Ack. No.394650002021 Dated:26/06/2021 TELANGANA STATE DISASTER RESPONSE & FIRE SERVICE DEPARTMENT –Kukatpally Division. Renewal of No Objection Certificate for Occupancy to the Multi storeyed Building of M/S Little Scholars School,Plot No: A-5 (North-Eastern Part) In Survey No.59 Industrial Estate,. Ward No.7, Block No-2 Sanath Nagar Balanagar(m) Hyderabad./-Balanagar/Medchal , – Regarding. 1. Acknowledgement No 394650002021 2. This Office NOC for Occupancy Ack/RC No.Rc.No.1352/B1/2009 dt.2 3. Multi storeyed Building Inspection Committee Report,.

1) The Multi storeyed Building Inspection committee, vide reference cited (3) has inspected the Multi storeyed Building of M/S Little Scholars School,Plot No: A-5 (North-Eastern Part) In Survey No.59 Industrial Estate,. Ward No.7, Block No-2 Sanath Nagar Balanagar(m) Hyderabad./-Balanagar/Balanagar/Medchal

2) The above said building was issued was issued No Objection certificate vide reference cited (2) for Multi storeyed Building with 1 Cellars,1 Ground, 5 Floors, with a height of 21.00 Meters for EDUCATIONAL B-2 All others/training institutions Occupancy.

3) Now the Builder/Authorized person has requested to issue Renewal of No Objection Certificate for Occupancy to the Multi storeyed Building with 1 Cellars,1 Ground, 5 Floors, with a height of 21.00 Meters for EDUCATIONAL B-2 All others/training institutions Occupancy

4) Open Spaces: The builder provided the following open spaces all around the building.

	Sl.No	Side	Open spaces as per Noc occupancy	Open spaces provided now
a	1	North	7.00	7.00
	2	South	7.00	7.00
	3	East	7.00	7.00
	4	West	7.00	7.00
b	Sl. No	Gate Width As per Occupancy NOC	as per Noc occupancy	provided now
	1	Entry gate width	6.00	6.00
	2	Entry Gate Head Clearance	4.50	4.50
	3	Exit Gate Width	6.00	6.00
	4	Exit Gate Head Clearance	4.50	4.50

5) Travel Distance

Śl.	Item / Description	as per Noc	provided
No.		occupancy	now
	Farthest point (Most Remote Point) With in a storey or a mezzanine floor to the door to an Exit.	17.00	17.00

า	The Dead end of the corridor length in exit access. (6 mtrs for Educational,	11.70	11.70
2	Institutional and Assembly, 15mtrs for other Occupancies)	11.70	11.70

6) Stair Cases (As per Occupancy NOC) :	
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Sl.no.	Type of staircases	Total width	No of staircases	Floors from	Floors to
1	Internal staircases	3.00	1	Cellar-1	Terrace
2	External staircases	3.00	1	Ground	Terrace
3	Ramp(Used for Movement of Vehicles)	5.40	1	Cellar	Ground

7) Means of Escape Floor Wise Details :

Sl.no	Floor	Buil-up Area	Type of Occupancy	Occupan	Means of escape required	Means escape
•	type	in Sq.Mtrs	Type of Occupancy	t Load	as per Occupancy NOC	available now
1	Cellar	1396.10	Parking	349.00	6.98	8.40
r	Groun	599.03	EDUCATIONAL B-2 All	150.00	3.00	6.00
2	d	399.03	others/training institutions	130.00	5.00	6.00
2	1st	687.76	EDUCATIONAL B-2 All	172.00	3.44	6.00
3	Floor	007.70	others/training institutions	1/2.00	5.44	
1	2nd	687.76	EDUCATIONAL B-2 All	172.00	3.44	6.00
4	Floor	087.70	others/training institutions	1/2.00	5.44	
5	3rd	687.76	EDUCATIONAL B-2 All	172.00	3.44	6.00
5	Floor	087.70	others/training institutions	1/2.00	3.44	
6	4th	687.76	EDUCATIONAL B-2 All	172.00	3.44	6.00
6	Floor	007.70	others/training institutions	1/2.00	5.44	0.00
7	5th	687.76	EDUCATIONAL B-2 All	172.00	3.44	6.00
/	Floor	007.70	others/training institutions	172.00	5.44	

8) Fire Shaft as per Occupancy NOC:

Item / Description	Required	Provided
Fire Shaft / Fire Lift	0	0

9) Floor Wise details of Fire Fighting Installations:

Sl.n o	Floor Details	Fire Extinguish er	Hose Reel	Automatic Sprinklers System	Manually Operated Electronic Fire Alarm System	Automatc detection and alarm system
1	Cellar	7.00	2.00	156.00	2.00	0.00
2	Ground	3.00	1.00	0.00	1.00	0.00
3	1st Floor	4.00	1.00	0.00	1.00	0.00
4	2nd Floor	4.00	1.00	0.00	1.00	0.00
5	3rd Floor	4.00	1.00	0.00	1.00	0.00
6	4th Floor	4.00	1.00	0.00	1.00	0.00
7	5th Floor	4.00	1.00	0.00	1.00	0.00

10) Fire Fighting Installations As per Occupancy NOC :

Fire Fighting System.	Required As per Occupancy NOC	Provided
Fire Extinguishers	55	55
First Aid Hose Reel	6	6
Down Comer	6	6
Automatic Sprinkler System	40	40
Manually Operated Electronic Fire Alarm Systems	6	6
Terrace Tank over Respective Tower Terrace in Litres	25000	25000
Pump Capacity in LPM at the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²	900	900

	he builder has provided the following additional Fire Safety Requirements as per NBC of India 2016:
Sl.No	Fire safety Item
	Floor Openings Fire Protection as per Clause 3.4.5.4
1.	a) Openings in Service ducts and shafts allowing building services like cables, Electrical wirings, Telephone
1.	cables, plumbing pipes etc., shall be protected by enclosure in the form of ducts / shaft having a fire resistant's
	not less than 120 min.
	b)The inspection door for electrical shafts / ducts have fire resistance rating of 120 min
	c)Medium and low voltage wiring running in shafts / ducts are armoured type or run through metal conduits.
	d)The space between the electrical cables/conduits and the walls/slabs are filled in by a fire stop material having
	fire resistance rating of not less than 120 min. This shall exclude requirement of fire stop sealing for low voltage
	services shaft. 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
	e)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
	Vertical openings Fire Protection as per Clause- 3.4.5.6
	a) Every vertical opening between the floors of a building is suitably enclosed or protected, as necessary, to
	provide the following:
2.	Reasonable safety to the occupants while using the means of egress by preventing spread of fire, smoke, or
	fumes through vertical openings from floor to floor to allow occupants to complete their use of the means of
	egress. Further it shall be ensured to provide a clear height of 2 100 mm in the exit access.
	b) Limitation of damage to the building and its contents.
	Electrical Installation as per Clause – 3.4.6
	(For requirements regarding installations from the point of view of fire safety, reference may be made to good
3.	practice [4(6)] and 8. Building Services, Section 2 Electrical and Allied Installations. Of the Code.)
	a) In general, it is desirable that the wiring and cabling are with flame retardant property. 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.
	b) The electric distribution cables/wiring are laid in a separate shaft. The shaft is sealed at every floor with fire
	stop materials having the same fire resistance as that of the floor. High, medium and low voltage wiring running
	in shaft and in false ceiling shall run in separate shaft/conduits.
	c) Water mains, gas pipes, telephone lines, intercom lines or any other service line shall not be laid in the duct
	for electrical cables; use of bus ducts/solid rising mains instead of cables is preferred.
	Emergency power for fire and life safety systems as per Clause- 3.4.6.2
	Emergency power supplying distribution system for critical requirement for functioning of fire and life safety
4.	system and equipment planned for efficient and reliable power and control supply to the following systems and
	equipment is provided
	a) Fire pumps.
	b) Pressurization and smoke venting; including its ancillary systems such as dampers and actuators.
	c) Fire mans lifts (including all lifts).
	d) Exit signage lighting.
	e) Emergency lighting.
	f) Fire alarm system.
	g) Public address (PA) system (relating to emergency voice evacuation and annunciation).
	h) Magnetic door hold open devices.
	i) Lighting in fire command centre and security room
	j) Power supply to these systems and equipment shall be from normal and emergency (standby generator) power
	sources with changeover facility. If power supply, is from HV source and HV generation, the transformer should
	be planned in standby capacity to ensure continuity of power to such systems.
	k) Wherever transformers are installed at higher levels in buildings and backup DG sets are of higher voltage
	rating, then dual redundant cables shall be taken to all transformers. The generator shall be capable of taking
	starting current of all the fire and life safety systems and equipment as above.
	1) The generator shall be capable of taking starting current of all the fire and life safety systems and equipment as
	above.
	m) Where parallel HV/LV supply from a separate substation fed from different grid is provided with appropriate
	transformer for emergency, the provision of generator may be waived in consultation with the Authority.
	n) The power supply to the panel/distribution board of these fire and life safety systems shall be through fire
	proof enclosures or circuit integrity cables or through alternate route in the adjoining fire compartment to ensure
	supply of power is reliable to these systems and equipment
	o) It shall be ensured that the cabling from the adjoining fire compartment is protected within the compartment

	of vulnerability. 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. 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 labeled.
	p) Cables for fire alarm and PA system shall be laid in metal conduits or armoured to provide physical
	segregation from the power cables
5	Substation/Transformers fire safety as per Clause – 3.4.6.3
5.	a) The substation area is adequately ventilated.
	b) An independent, ventilated or air conditioned MV panel room provided on the ground level or first basement.
	This room is provided with access from outside (or through exit passageway accessible from outside). The MV
	panel room is provided with fire resistant walls and doors of fire resistance of not less than 120 min.
	c) If the licensees agree to provide meters on upper floors, the licensees' cables is segregated from consumers.
	Cables by providing a partition in the shaft. Meter rooms on upper floors shall not open into staircase enclosures
	and ventilated directly to open air outside or in electrical room of 120 min fire resistant walls.
	d) Electrical MV main distribution panel and lift panels are provided with CO2/inert gas flooding system for all
	panel compartments with a cylinder located beside the panel.
	Oil filled substation fire safety as per Clause – 3.4.6.3.1
	A substation or a switch-station with oil filled equipment shall be limited to be installed in utility building or in
	outdoor location. Such substation/utility building shall be at least 7 m away from the adjoining building(s).
	Substation equipment (exceeding oil capacity of 2 000 litre) in utility building shall have fire rated baffle walls
6.	of 240 min rating constructed between such equipment, raised to at least 600 mm above the height of the
	equipment (including height of oil conservators) and exceeding 300 mm on each side of the equipment. All
	transformers where capacity exceeds 10 MVA shall be protected by high velocity water spray systems or
	nitrogen injection system.
	Dry type substation fire safety as per Clause – 3.4.6.3.2 Transformers located inside a building shall be of dry
	type and all substation/switch room walls, ceiling, floor, opening including doors shall have a fire resistance
7.	rating of 120 min. Access to the substation shall be provided from the nearest fire exit/exit staircase for the
	purpose of electrical isolation.
	Standby supply as per clause -3.4.6.4
	a) Diesel generator set(s) shall not be installed at any floor other than ground/first basement. If the same are
8.	installed indoors, proper ventilation and exhaust shall be planned. The DG set room shall be separated by 120
	mistance indoors, proper ventuation and exhaust shall be planned. The DO set room shall be separated by 120 min fire resistance rated walls and doors.
	b) The oil tank for the DG sets (if not in the base of the DG) shall be provided with a dyked enclosure having a
	volumetric capacity of at least 10 percent more than the volume of the oil tank. The enclosure shall be filled with
	sand for a height of 300 mm.
	Lightning protection of buildings as per clause – 3.4.6.5 Routing of down conductors (insulated or
	uninsulated) of lightning protection through electrical or other service shafts are not allowed as it can create fire
9.	and explosion during lightning. For details, see Part 8 .Building Services, Section 2 Electrical and Allied
	Installations' of the Code.
	Escape Lighting and Exit Signage as per Clause 3.4.7 Exit access, exits and exit discharge shall be properly
10.	identified, with adequate lighting maintained in the elements of the egress systems so that all occupants shall be
	able to leave the facility safely.
	Lighting as per Clause – 3.4.7.1
1.1	a) The exit, exit access and exit discharge systems shall be illuminated continuously. The floors of the means of
11.	egress shall be illuminated at all points, including angles and intersections, in corridors and passageways,
	stairwells, landings of stairwells and exit.
	b) Emergency lighting shall be powered from a source independent of that supplying the normal lighting.
	c) Escape lighting shall be capable of,
	i) indicating clearly and unambiguously the escape routes;
	ii) providing adequate illumination along such routes to allow safe movement of persons towards and through
	the exits; and
	iii) ensuring that fire alarm call points and firefighting equipment provided along the escape routes can be
	readily located.
	d) The horizontal luminance at floor level on the centreline of an escape route shall not be less than 10
	lumen/m2. In addition, for escape routes up to 2 m wide, 50 percent of the route width shall be lit to a minimum
	of 5 lumen/m2. In auditoriums, theatres, concert halls and such other places of assembly, the illumination of
	floor exit/access may be reduced during period of performances to values not less than 2 lux.
	e) Required illumination shall be arranged such that the failure of any single lighting unit, such as the burning
1	out of one luminaire, will not leave any area in darkness and does not impede the functioning of the system

	further.		
	f) The emergency lighting shall be provided to be put on within 5 s of the failure of the normal lighting supply.		
	Also, emergency lighting shall be able to maintain the required illumination level for a period of not less than 9		
	min in the event of failure of the normal lighting even for smaller premises.		
	g) Battery pack emergency lighting, because of its limited duration and reliability, shall not be allowed to		
used in lieu of a diesel engine driven emergency power supply.			
	 h) Escape lighting luminaires should be sited to cover the following locations: i) Near each intersection of corridors, 		
	ii) At exits and at each exit door,		
	iii) Near each change of direction in the escape route,		
	iv) Near each staircase so that each flight of stairs receives direct light,		
	v) Near any other change of floor level,		
	v) Near any other change of hoor level, vi) Outside each final exit and close to it,		
	vi) Near each fire alarm call point,		
	viii) Near firefighting equipment, and		
	ix) To illuminate exit and safety signs as required by the enforcing authority.		
	i) The luminaires shall be mounted as low as possible, but at least 2 m above the floor level.		
	j) Signs are required at all exits, emergency exits and escape routes, which should comply with the graphic		
	requirements of the relevant Indian Standards.		
	Exit passageway Provided as per clause – 3.4.7.2. (at ground) and staircase lighting is to be connected to		
12.	alternative supply. The alternative source of supply may be provided by battery continuously trickle charged		
	from the electric mains		
	Suitable arrangements as per clause – 3.4.7.3 Installation of double throw switches to ensure that the lighting		
13	installed in the staircase and the corridor does not get connected to two sources of supply simultaneously.		
15	Double throw switch shall be installed in the service room for terminating the stand-by supply.		
Air Conditioning, Ventilation and Smoke Control as per clause – 3.4.8 Air conditioning and ven			
	systems shall be so installed and maintained as to minimise the danger of spread of fire, smoke or fumes from		
14.	one floor to other or from outside to any occupied building or structure. Wherever batteries are provided, the		
1	same shall be segregated by 120 min fire rated construction. Ventilation to the room shall be provided as per		
	manufacturer's instructions.		
	Air handling unit as per Clause -3.4.8.2		
15.	Air handling unit as per Clause -3.4.8.2 a) From fire safety point of view, separate air handling units (AHU) for each floor shall be provided so as to		
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	requirement as above.			
	h) As per Clause 3.4.8.3.5 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.			
i) As per Clause 3.4.8.3.6 Inspection panels shall be provided in the ductwork to facilitate the c				
accumulated dust in ducts and to obtain access for maintenance of fire dampers.				
j) As per Clause 3.4.8.4 Fire or fire/smoke dampers 3.4.8.4.1 These dampers shall be evaluated to be l				
	supply air ducts, fresh air and return air ducts/ passages at the following points:			
	i) At the fire separation wall,			
	ii) Where ducts/passages enter the vertical shaft,			
	iii) Where the ducts pass through floors, and			
	iv) At the inlet of supply air duct and the return air duct of each compartment on every floor.			
	k) As per Clause 3.4.8.4.2 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.			
	Glazing as per Clause –3.4.10.1 The glazing shall be in accordance with Part 6 .Structural Design, Section 8			
	Glass and Glazing' of the Code. The entire glazing assembly shall be rated to that type of construction as given			
16.	in Table 1. This shall be applicable along with other provisions of this Part related to respective uses as specified			
	therein. i) The use of glass shall not be permitted for enclosures of exits and exit passageway.			
	Fire Command Centre (FCC) as per Clause- 3.4.12			
	a) Fire command centre (FCC) as per Clause- 3.4.12 a) Fire command centre shall be on the entrance floor of the building having direct access. The control room			
17.				
	shall have the main fire alarm panel with communication system (suitable public address system) to aid floors			
	and facilities for receiving the message from different floors.			
	b) Fire command centre shall be constructed with 120 min rating walls with a fire door and shall be provided			
	with emergency lighting. Interior finishes shall not use any flammable materials. All controls and monitoring of			
	fire alarm systems, pressurization systems, smoke management systems shall happen from this room.			
Monitoring of integrated building management systems, CCTVs or any other critical parameters in bualso be from the same room.				
				c) Details of all floor plans along with the details of firefighting equipment and installations (2 sets l
	and bound) shall be maintained in fire command centre.			
	d) The fire staff in charge of the fire command centre shall be responsible for the maintenance of the various			
	services and firefighting equipment			
	General Exit Requirements as per clause – 4.2 4.2.3			
18.	a) Every exit, exit passageway and exit discharge shall be continuously maintained free of all obstructions or			
	impediments to full use in the case of fire or other emergency.			
	4.2.7 b) For non-naturally ventilated areas, fire doors with 120 min fire resistance rating shall be provided and			
	particularly at the entrance to lift lobby and stair well where a .funnel or flue effect' may be created, inducing an			
	upward spread of fire, to prevent spread of fire and smoke.			
	4.2.9 c) Doors in exits shall open in the direction of exit. In case of assembly buildings (Group D) and			
	institutional buildings (Group C-1), exit door shall not open immediately upon a flight of stair and all such			
	entries to the stair shall be through a landing, so that such doors do not impede movement of people descending			
	from a higher floor when fully opened (see Fig. 4A). While for other occupancies, such doors shall not reduce			
	the pathway in the landing by more than half the width of such staircase (see Fig. 4B). Over- head or sliding			
	doors shall not be installed.			
	4.2.11 d) Unless otherwise specified, all the exits and exit passageways to exit discharge shall have a clear ceiling			
	height of at least 2.4 m. However, the height of exit door shall be at least 2.0 m (see Fig. 5).			
	4.2.16 e) Suitable means shall be provided so that all access controlled exit doors, turnstiles, boom barriers and			
	other such exits shall automatically operate to open mode during emergencies like fire, smoke, acts of terrorism,			
	etc, so that people can safely and quickly egress into safe areas outside. If required, a master controlling device			
	may be installed at a strategic location to achieve this.			
	4.2.17 f) Penetrations into and openings through an exit are prohibited except those necessary like for the fire			
	protection piping, ducts for pressurization and similar life safety services. Such openings as well as vertical			
	passage of shaft through floors shall be protected by passive systems.			
	Exit Access as per Clause – 4.4.1			
	a) In order to ensure that each element of the means of egress can be effectively utilized, they shall all be			
19.	properly lit and marked. Lighting shall be provided with emergency power back-up in case of power failures.			
	riso, exit signs of adequate size, marking, location, and righting shall be provided so that all mose unfamiliar			
	Also, exit signs of adequate size, marking, location, and lighting shall be provided so that all those unfamiliar			

	with the location of the exits may safely find their way.			
	b) Exit access to fireman's lift and refuge area on the floor shall be step free and clearly signposted with the			
	international symbol of accessibility.			
	c) Exit access shall not pass through storage rooms, closets or spaces used for similar purpose.			
20.	Smoke control of exits as per Clause – 4.4.2.5 The pressure difference for staircases shall be 50 Pa.Pressur differences for lobbies (or corridors) shall be between 25 Pa and 30 Pa. Further, the pressure differential for enclosed staircase adjacent to such lobby (or corridors) shall be 50 Pa. For enclosed staircases adjacent to no pressurized lobby (or corridors), the pressure differential shall be 50 Pa.			
	The normal air conditioning system and the pressurization system shall be designed and interfaced to meet the			
21.	requirements of emergency services. When the emergency pressurization is brought into action, the following changes in the normal air conditioning system shall be effected: a) Any re-circulation of air shall be stopped and all exhaust air vented to atmosphere.			
	b) Any air supply to the spaces/areas other than exits shall be stopped.			
	c) The exhaust system may be continued provided,			
 i) The positions of the extraction grills permit a general air flow away from the means of egress; ii) The construction of the ductwork and fans is such that, it will not be rendered inoperable by hot gases smoke; and 				
	iii) There is no danger of spread of smoke to other floors by the path of the extraction system which can be ensured by keeping the extraction fans running.			
For pressurized stair enclosure systems, the activation of the systems shall be initiated by signalling fro				
22.	alarm panel.			
	Pressurization system shall be integrated and supervised with the automatic/manual fire alarm system for			
23.	actuation			
	Wherever pressurized staircase is to be connected to unpressurized area, the two areas shall be segregated by 120			
24.	min fire resistant wall.			
25.	Fresh air intake for pressurization shall be away (at least 4 m) from any of the exhaust outlets/grille.			
23.	Smoke Control as per clause – 4.6			
	a) Smoke Exhaust and Pressurization of Areas Above Ground Corridors in exit access (exit access corridor) are			
26.				
	created for meeting the requirement of use, privacy and layout in various occupancies. These are most often			
	noted in hospitality, health care occupancies and sleeping accommodations.			
	b) Exit access corridors of guest rooms and indoor patient department/areas having patients lacking self			
	preservation and for sleeping accommodations such as apartments, custodial, penal and mental institutions, etc,			
	shall be provided with 60 min fire resistant wall and 20 min self-closing fire doors along with all fire stop			
sealing of penetrations.				
	c) Smoke exhaust system having make-up air and exhaust air system or alternatively pressurization system			
	supply air system for these exit access corridors shall be required.			
	d) Smoke exhaust system having make-up air and exhaust air system shall also be required for theatres/auditoria.			
	Such smoke exhaust system shall also be required for large lobbies and which have exit through staircase leading			
	to exit discharge. This would enable eased exit of people through smoke controlled area to exit discharge.			
	e) All exit passageway (from exit to exit discharge) shall be pressurized or naturally ventilated. The mechanical			
	pressurization system shall be automatic in action with manual controls in addition. All such exit passageway			
	shall be maintained with integrity for safe means of egress and evacuation. Doors provided in such exit			
	passageway shall be fire rated doors of 120 min rating.			
	f) Smoke exhaust system where provided, for above areas and occupancies shall have a minimum of 12 air			
	changes per hour smoke exhaust mechanism. Pressurization system where provided shall have a minimum			
pressure differential of 25-30 Pa in relationship to other areas.				
			g) The smoke exhaust fans in the mechanical ventilation system shall be fire rated, that is, 250°C for 120 min.	
	For naturally cross-ventilated corridors or corridors with operable windows, such smoke exhaust system or			
	pressurization system will not be required.			
	Smoke Exhaust and Pressurization of Areas Below Ground as per clause – 4.6.2			
27.	a) Each basement shall be separately ventilated. Vents with cross-sectional area (aggregate) not less than 2.5			
	percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of			
	grills, or breakable stall board lights or pavement lights or by way of shafts.			
	b) Alternatively, a system of mechanical ventilation system may be provided with following requirements:			
	c) Mechanical ventilation system shall be designed to permit 12 air changes per hour in case of fire or distress			
	call. However, for be as given in Part 8 Building Services, Section 3 Air conditioning Heating and Mechanical			
	Ventilation of the Code.			
	d) In multi-level basements, independent air intake and smoke exhaust shafts (masonry or reinforced concrete)			
	for respective basement levels and compartments therein shall be planned with its make-up air and exhaust air			

	fans located on the respective level and in the respective compartment. Alternatively, in multi-level basements,
	common intake masonry (or reinforced cement concrete) shaft may serve respective compartments aligned at all
	basement levels. Similarly, common smoke exhaust/outlet masonry (or reinforced cement concrete) shafts may
	also be planned to serve such compartments at all basement levels. All supply air and exhaust air fans on
	respective levels shall be installed in fire resisting room of 120 min. Exhaust fans at the respective levels shall be
	provided with back draft damper connection to the common smoke exhaust shaft ensuring complete isolation
	and compartmentation of floor isolation to eliminate spread of fire and smoke to the other compartments/floors.
	e) Due consideration shall be taken for ensuring proper drainage of such shafts to avoid insanitation condition.
	Inlets and extracts may be terminated at ground level with stall board or pavement lights as before. Stall board
	and pavement lights should be in positions easily accessible to the fire brigade and clearly marked AIR INLET
	or SMOKE OUTLET with an indication of area served at or near the opening.
	1 0
	f) Smoke from any fire in the basement shall not obstruct any exit serving the ground and upper floors of the
	g) The smoke exhaust fans in the mechanical ventilation system shall be fire rated, that is, 250°C for 120 min.
	h) The smoke ventilation of the basement car parking areas shall be through provision of supply and exhaust air
	ducts duly installed with its supports and connected to supply air and exhaust fans. Alternatively, a system of
	impulse fans (jet fans) may be used for meeting the requirement of smoke ventilation complying with the
	following:
	i) Structural aspects of beams and other down stands/services shall be taken care of in the planning and provision
	of the jet fans.
	ii) Fans shall be fire rated, that is, 250°C for 120 min.
	iii) Fans shall be adequately supported to enable operations for the duration as above.
	iv) Power supply panels for the fans shall be located in fire safe zone to ensure continuity of power supply.
	v) Power supply cabling shall meet circuit integrity requirement in accordance with accepted standard [4(13)].
	i) The smoke extraction system shall operate on actuation of flow switch actuation of sprinkler system. In
	addition, a local and/or remote .manual start-stop control/switch' shall be provided for operations by the fire
	fighters.
	j) Visual indication of the operation status of the fans shall also be provided with the remote control.
	k) No system relating to smoke ventilation shall be allowed to interface or cross the transformer area, electrical
	switchboard, electrical rooms or exits.
	1) Smoke exhaust system having make-up air and exhaust air system for areas other than car parking shall be
	required for common areas and exit access corridor in basements/underground structures and shall be completely
	separate and independent of car parking areas and other mechanical areas.
	m) Supply air shall not be less than 5 m from any exhaust discharge openings.
	Fire Drills and Fire Orders are ensured as per clause – 4.11 Provided Fire notices/orders shall be prepared to
	fulfil the requirements of firefighting and evacuation from the buildings in the event of fire and other emergency.
28.	The occupants shall be made thoroughly conversant with their action in the event of emergency, by displaying
20.	
	fire notices at vantage points and also through regular training. Such notices should be displayed prominently in
	bold lettering. For guidelines for fire drills and evacuation procedures for high rise buildings, see Annex D.
	Fire Extinguishers/Fixed Firefighting Installations as per clause – 5.1 5.1.1 All buildings depending upon
	the occupancy use and height shall be protected by fire extinguishers, hose reels, wet riser, down-comer, yard
	hydrants, automatic sprinkler installation, deluge system, high/medium velocity water spray, foam, water mist
	systems, gaseous or dry powder system, manual/automatic fire alarm system, etc, in accordance with the
	provisions of various clauses given below, as applicable:
29.	a) These fire extinguishing equipment and their installation shall be in accordance with accepted standards
<i>2)</i> .	[4(17)]. The extinguishers shall be mounted at a convenient height to enable its quick access and efficient use by
	all in the event of a fire incidence. The requirements of fire extinguishers/yard hydrant systems/wet riser/down-
	comer installation and capacity of water storage tanks and fire pumps, etc, shall be as specified in Table 7. The
	requirements regarding size of mains/risers shall be as given in Table 8. The typical arrangements of down-
	comer and wet riser installations are shown in Fig. 13. The wet riser shall be designed for zonal distribution
	ensuring that unduly high pressures are not developed in risers and hose- pipes.
	b) First-aid firefighting appliances shall be provided and installed in accordance with good practice [4(18)]. The
	firefighting equipment and accessories to be installed in buildings for use in firefighting shall also be in
	accordance with the accepted standard [4(17)] and shall be maintained periodically so as to ensure their perfect
	serviceability at all times.
	c) Valves in fixed firefighting installations shall have supervisory switch with its signalling to fire alarm panel or
	to have chain(s), pad lock(s), label and tamper-proof security tag(s) with serial number to prevent
	tampering/unauthorized operation. These valves shall be kept in their intended open position.
	- d) In addition to wet river or down_comer first and have reals shall be installed in buildings (where required
	d) In addition to wet riser or down-comer, first- aid hose reels shall be installed in buildings (where required

	under Table 7) on all the floors, in accordance with accepted standard [4(19)]. The first-aid hose reel shall be			
	connected directly to the riser/down-comer main and diameter of the hose reel shall not be less than 19 mm.			
	e) Wet risers shall be interconnected at terrace level to form a ring and cut-off shall be provided for each			
	connection to enable repair/ maintenance without affecting rest of the system.			
	f) Pressure at the hydraulically remote hydrant and at the highest hydrant shall not be less than 3.5 bar. The			
	pressure at the hydrants shall however not exceed 7.0 bar, considering the safety of operators. It may be plant			
	to provide orifice plates for landing valves to control pressure to desired limit especially at lower levels; this			
	could also be achieved through other suitable means of pressure reducing devices such as pressure controlled			
	hydrant valves.			
	g) Hydrants for firefighting and hose reels shall be located in the lobby in firefighting shaft. Those hydrants			
	planned to be provided near fire exit staircase on the floor shall be within 5 m from exit door in exit access.			
	hydrant cabinet may finish with doors to meet interior finishes with requirement of glass panel to provide			
	visibility to the installations inside and inscribed with the word: FIRE HOSE CABINET of letter size 75 mm			
	height and 12 mm in width. Such door of the fire hose cabinet need not be fire resistant rated. The location of			
	such cabinets shall be shown on floor plan and duly displayed in the landing of the respective fire exit staircase.			
	Static water storage tanks as per clause – 5.1.2.1			
30.	a) firefighting shall always be available in the form of underground/terrace level static storage tank with capacity			
	specified for each building with arrangements or replenishment.			
	b) Water for the hydrant services shall be stored in an easily accessible surface/underground lined reservoir or			
	above ground tanks of steel, concrete or masonry. The effective capacity of the reservoir above the top of the			
	pump casing (flooded suction) for various types of occupancies shall be as indicated in Table 7.			
	c) Water for firefighting shall be stored in two or more interconnected compartments of equal size to facilitate			
	cleaning and maintenance of the tanks without interrupting the water availability for firefighting.			
	d) To prevent stagnation of water in the static water storage tank, the suction tank of the domestic water supply			
	shall be fed only through an overflow arrangement from the fire water storage tanks to maintain the level there			
	at the minimum specified capacity.			
	 e) Alternatively, domestic and fire water can be stored in two interconnected compartments as mentioned above 			
	The suction inlet(s) for the domestic water pumps shall be so located at an elevation that minimum water			
	requirements for firefighting as stated in Table 7 will be always available for fire pumps.			
	f) The static storage water supply required for the above mentioned purpose shall entirely be accessible to the			
	fire engines of the local fire service. Suitable number of manholes shall be provided for inspection, repairs,			
	insertion of suction hose, etc. As an alternative to the arrangement of manholes to allow access from the top,			
	suitable arrangement to enable efficient access to the tank by the firemen from the adjoining fire pump room			
	having direct access from the ground level, shall be made. The underground fire water storage tank(s) shall not			
	be more than 7 m in depth from the level having fire brigade draw-out connection, while the draw-out			
	connection shall not be more than 5 m away from the tank wall.			
	g) The covering slab shall be able to withstand a total vehicular load of 45 t (or as applicable) equally divided as			
	a four-point load when the slab forms a part of pathway/driveway.			
	h) The static water storage tank shall be provided with a fire brigade collecting head with 4 number 63 mm			
	diameter (2 number 63 mm diameter for pump with capacity 1 400 litre/min) instantaneous male inlets arranged			
	in a valve box at a suitable point at street level.			
	i) The same shall be connected to the static tank by a suitable fixed galvanized iron pipe not less than 150 mm in			
	diameter to discharge water into the tank when required at the rate of 2 250 litre/min, if tank is in the basement			
	or not approachable for the fire engines.			
	j) Each of the static water storage tanks shall also be provided with a fire brigade draw out collecting head with			
	63 mm diameter instantaneous male draw out arranged in a valve box at a suitable point at street level. This draw			
	out shall be connected to galvanized iron pipe of 100 mm diameter with foot valve arrangement in the tank.			
	Firefighting pump house as per clause 5.1.2.2 The requirements shall be as given below:			
31.	a) It is preferable to install the pump house at ground level. Pump house shall be situated so as to be directly			
	accessible from the surrounding ground level.			
	b) Pump house shall be installed not lower than the second basement. When installed in the basement, staircase			
	with direct accessibility (or through enclosed passageway with 120 min fire rating) from the ground, shall be			
	provided. Access to the pump room shall not require tonegotiate through other occupancies within the basement.			
	c) Pump house shall be separated by fire walls all around and doors shall be protected by fire doors (120 min			
	rating).			
	d) Pump house shall be well ventilated and due care shall be taken to avoid water stagnation.			
	e) No other utility equipment shall be installed inside fire pump room.			
	f) Insertions like flexible couplings, bellows, etc, in the suction and delivery piping shall be suitably planned and			
	installed.			

	g) Installation of negative suction arrangement and submersible pumps shall not be allowed.			
	h) Pump house shall be sufficiently large to accommodate all pumps, and their accessories like PRVs,			
	installation control valve, valves, diesel tank and electrical panel.			
	i) Battery of diesel engine operated fire pump shall have separate charger from emergency power supply circuit.			
	j) Exhaust pipe of diesel engine shall be insulated as per best engineering practice and taken to a safe location at			
	ground level, considering the back pressure.			
	k) Fire pumps shall be provided with soft starter or variable frequency drive starter.			
	Automatic Sprinkler Installation as per clause – 5.1.3 The requirements shall be as given below:			
32.	a) Automatic sprinklers shall be installed wherever required in terms of Table 7 throughout the building in			
52.	accordance with good practice [4(20)].			
<u> </u>	b) If selective sprinklering is adopted, there is a real danger of a fire starting in one of the unsprinklered area			
	gathering momentum spreading to other areas and reaching the sprinklered areas as a fully developed fire. In			
	such an event, the sprinklers can be rendered useless or ineffective.			
	 c) Automatic sprinklers shall be installed in false ceiling voids exceeding 800 mm in height. d) Installation of aminharmous he evaluated in one area to be used for substation and DC set 			
	d) Installation of sprinklers may be excluded in any area to be used for substation and DG set.			
	e) In areas having height 17 m or above such as in atria, sprinkler installations may be rendered ineffective and			
	hence may be avoided.			
	f) Pressure in sprinkler system shall not exceed 12 bar or else high pressure sprinkler to be installed for above 12			
	bar operations.			
	g) The maximum floor area on any one floor to be protected by sprinklers supplied by any one sprinkler system			
	riser from an installation control valve shall be based on system protection area limitations considering			
	maximum floor area on any one floor to be 4 500 m2 for all occupancies except industrial and hazardous			
	occupancies, where Authorities shall be consulted for advice based on type and nature of risk.			
	h) Sprinkler installation control valves, shall be installed inside the fire pump room.			
	i) For industrial buildings, such installation control valves may be installed outside the building and Authorities			
	shall be consulted in situations where it is not possible to locate them inside the buildings. It is advisable to			
	provide lectrically operated siren for each valve outside the buildings in addition to water gongs in such case.			
	i) The sprinkler flow switches provided shall be monitored by fire alarm panel.			
	k) It is essential to make provisions for avoiding water from sprinkler/hydrant operation entering lifts and			
	electrical rooms.			
	1) Ramps at all levels shall be protected with sprinklers.			
Automatic High Velocity and Medium Velocity Water Spray Systems as per clause 5.1.4 Automatic High Velocity and Medium Velocity Water Spray Systems as per clause 5.1.4 Automatic High Velocity and Medium Velocity Water Spray Systems as per clause 5.1.4 Automatic High Velocity and Medium Velocity Water Spray Systems as per clause 5.1.4 Automatic High Velocity Automa				
	velocity water spray or emulsifying system shall be provided for protection of outdoor and/ or indoor oil-cooled			
33.	transformers as applicable in accordance with good practice [4(21)] where applicable (see Annex E). Also,			
55.	medium velocity water spray system shall be provided for tankage (where applicable), conveyors, cable galleries			
	and other occupancies listed in good practice [4(21)].			
	Fire Fighting shaft as per E-2 of Annexure E of part 4 NBC of India 2016 EGRESS AND EVACUATION			
	STRATEGY			
	a) One firefighting shaft shall be planned for each residential building/tower, in an educational building/ block,			
34.	and for each compartment of institutional, assembly, business and mercantile occupancy types. For other			
	occupancy types, requirement of fire fighting shaft shall be ascertained in consultation with the local fire			
	authority. The firefighting shaft shall necessarily have connectivity directly to exit discharge or through exit			
	passageway (having 120 min fire resistance walls) to exit discharge.			
	b) Staircase and fire lift lobby of a firefighting shaft shall be smoke controlled as per 4.4.2.5 and Table 6.			
	c) It is recommended that the pressurization requirement for staircase in firefighting shaft and for other fire exit			
	staircases in buildings greater than 60 m in height 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.			
	E-2 EGRESS AND EVACUATION STRATEGY The firefighting shafts have connectivity directly to exit			
35.	discharge or through exit passageway (having 120 min fire resistance walls) to exit discharge.			
	Smoke control as per clause 4.4.2.5 Staircase and fire lift lobby of a firefighting shaft shall be smoke controlled			
	as per 4.4.2.5 and Table 6. The pressurization requirement for staircase in firefighting shaft and for other fire exit			
36.	staircases in buildings greater than 60 m in height be evaluated to limit the force required to operate the door			
50.				
	assembly (in the direction of door opening) to not more than 133 N to set the door leaf in motion. The aspect of			
27	pressurization, door area/width and door closure shall be planned in consideration to the above.			
37.	FIRE SAFETY REQUIREMENTS FOR LIFTS as per clause E-3 of Annexure E of part – 4 NBC of India 2016			
	E-4 HORIZONTAL EXITS/REFUGE AREA Horizontal exits are through a fire door of 120 min rating in a			
38.	fire resistant wall High rise apartment buildings with apartments having balcony, need not to be provided with			
	refuge area; however apartment buildings without balcony shall provide refuge area as given above. Refuge			

	areas for apartment buildings of height above 60 m while having balconies shall be provided at 60 m and				
	thereafter at every 30 m. The refuge area shall be an area equivalent to 0.3 m2 per person for accommodating				
	occupants of two consecutive floors, where occupant load shall be derived on basis of 12.5 m2 of gross floor				
	area and additionally 0.9 m2 for accommodating wheel chair requirement or shall be 15 m2, whichever is higher				
	E-5 ELECTRICAL SERVICES				
39.	a) The specific requirements for electrical installations in multi-storeyed buildings given in Part 8 .Building				
59.	Services, Section 2 Electrical and Allied Installations of the Code and Section 7 of National Electrical Code				
	2011 to be complied.				
	b) Wherever transformers are planned at higher floors, the HT cables shall be routed through a separate shaft				
	having its own fire resistance rating of 120 min. Wherever HT generators are planned centrally at ground or first				
	basement level, redundant transformers and HT cables shall be planned for buildings above 60 m in height.				
40.	The builder submited the compliance certificate by the respective technical consultant, Architect, structural,				
т 0.	Electrical, HVAC Engineers and fire safety consultants.				
	3.4.10.2 Glass facade shall be in accordance with the following:				
	a) For fully sprinklered buildings having fire separation of 9 m or more, tempered glass in a non-combustible				
41.	assembly, with ability to hold the glass in place, shall be provided. It shall be ensured that sprinklers are located				
	within 600 mm of the glass facade providing full coverage to the glass. NOTE . In case of all other buildings,				
	fire resistance rating of glass facade shall be in accordance with Table 1.				
	b) All gaps between floor-slabs and façade assembly shall be sealed at all levels by approved fire resistant				
	sealant material of equal fire rating as that of floor slab to prevent fire and smoke propagation from one floor to				
	another.				
	c) Openable panels shall be provided on each floor and shall be spaced not more than 10 m apart measured along				
	the external wall from centre-to-centre of the access openings. Such openings shall be operable at a height				
	between 1.2 m and 1.5 m from the floor, and shall be in the form of openable panels (fire access panels) of size				
	not less than 1 000 mm \times 1 000 mm opening outwards. 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.				
	Such panels shall be suitably distributed on each floor based on occupant Concentration. These shall not be				
	limited to cubicle areas and shall be also located in common areas/corridors to facilitate access by the building				
10	occupants and fire personnel for smoke exhaust in times of distress.				
42.	ATRIUM Fire safety as per Annexure-F (Clause-6) of part – 4 NBC of India 2016				
	Compartmentation as per clause - 4.5				
43.	4.5.2 All floors shall be compartmented/zoned with area of each compartment being not more than 750 m2. The				
	maximum size of the compartment shall be as follows, in case of sprinklered basement/building:Sl. NoUseCompartment-ation Area m2				
	Si. No Ose Compartment-autor Area III2				

12. Remarks :

Approved as recommended.

13) In view of the above and as per recommendations of the Multi storeyed building inspection Committee, the Renewal of No Objection Certificate for occupancy is issued to Multi storeyed Building with M/S Little Scholars School,Plot No: A-5 (North-Eastern Part) In Survey No.59 Industrial Estate,. Ward No.7, Block No-2 Sanath Nagar Balanagar(m) Hyderabad./-Balanagar/Balanagar/Medchal

with a height of **21.00** Meters for **EDUCATIONAL B-2** All others/training institutions Occupancy subject to the following conditions

Sl No	Builder and Management Body	Occupant	Management Body and fire and security personnel
1	 -a) All the fire protection arrangements shall be maintained in good condition as seen during inspection. -b) Do's and Don'ts in case of fire shall be prominently displayed in entire building 	not be kept locked/blocked or	All the occupants must know the correct method of operation of the fire fighting systems installed.
2	Any loss of life or property due to non-functioning of fire safety measures and other installations shall be the responsibility of the	All occupants shall be trained to operate the fire safety equipment during emergency.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.

	management.		
3	Addition / alteration, if any in the building may be verified by building authority.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.	All security personnel shall be trained to operate the fire safety equipment during emergency and guiding the occupants in safe evacuation. Call the fire Brigade by dialing 101.
4	This No objection Certificate for occupancy is valid for Five year from the date of issue of this letter.	Raise the alarm if the fire cannot be controlled, evacuate the area completely at once from the nearest safe exit.	Attack the fire using available fire equipment only if you feel capable of controlling it. If not, take all steps to isolate the area by closing doors and windows.

This Renewal of No Objection Certificate for Occupancy is valid for Five years from the date of issue of this letter. It is the responsibility of the builder to apply for renewal NOC, duly remitting the user charges as per G.O. Ms. No. 71, Home (Prison – A) Department, dated 01-04-2010, two months before expiry of this No Objection Certificate.

Yours Sincerely, Regional Fire Officer Central Region, Response & Fire Services, Telangana, Hyderabad.

Copies to:

i) The Management

ii) Multi storeyed Building Inspection Committee

iii) Copy submitted to Regional Fire officer

iv) Copy submitted to DG fire services

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