HALL OF TELEVISION	GOVERNMEN STATE DISASTER RESPONSE NO OBJECTION CERT	T OF TELANGANA & FIRE SERVICES DEPARTMENT FICATE FOR OCCUPANCY	TELANGANA STATE FIRE
From The Director General State Disaster Response and Fire Services, Telangana, Hyderabad.		To, ANNAMACHARYA INSTITUTE AND SCIENCES, SURVEY NO: 17/AA, 17/, 17/21, SITUATED AT PIGLIPUR (VILLA BATASINGARAM(POST), HAYATH NAGAR (MANDAL) R T.S.,	OF TECHNOLOGY AGE), .R. DIST,
	Ack. No.113660002018Dated:01/	03/2021	
Sir,			IN WARMEN (IN)
Sub:	TELANGANA STATE DISASTER RESPONSE & FIRE SERVICE DEPARTMENT –. Issue of No Objection Certificate for Occupancy to the Multi storeyed Building of AITS,SURVEY NO: 17/AA, 17/,17/21, SITUATED AT PIGLIPUR (VILLAGE), BATASINGARAM(POST), HAYATH NAGAR (MANDAL) R.R. DIST, T.S/- Piglipur/Hayathnagar/Rangareddy, Hyderabad – Regarding.		
Ref:	 Acknowledgement No1136600 This Office Provisional NOC A Multi-Storeyed Building Inspective Hyderabad Ack. No. 1136600020 	02018 .ck/RC No.0 dt. ction Committee Report,. 18, dt. 01/03/2021	

The Multi Storeyed Building Inspection committee, vide reference cited (3) has inspected the Multi Storeyed Building of AITS, SURVEY NO: 17/AA, 17/,17/21, SITUATED AT PIGLIPUR (VILLAGE), BATASINGARAM(POST), HAYATH NAGAR (MANDAL) R.R. DIST, T.S/-Piglipur/Hayathnagar/Rangareddy on 01/03/2021 and submitted the following report.

2) The builder was issued Provisional No Objection certificate vide reference cited (2) for construction of Multi Storeyed Building **1 Ground**, **4 Floors**, with for **EDUCATIONAL B-2 All others/training institutions**. Now the builder has constructed the Multi Storeyed Building with **1 Ground**, **4 Floors**, with a height of **20.00** Meters for **EDUCATIONAL B-2 All others/training institutions** Occupancy and requested for No Objection Certificate for Occupancy.

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

	Sl.No	Side	Open space Required as per Provisional No Objection Certificate	Open space Provided
ŧ	ı 1	North	7.00	10.00
	2	South	7.00	10.00
	3	East	7.00	10.00
Γ	4	West	7.00	10.00
1				

This is not stepped type building.

b	Sl. No	Gate Width As per NBC 2016	Required	Provided
	1	Entry gate width	6.00	6
	2	Entry Gate Head Clearance	4.50	6.00
	3	Exit Gate Width	6.00	6
	4	Exit Gate Head Clearance	4.50	6.00

6. Tr	avel Distance				
Sl. No.	Item / Description			Required (Not More than in Mtrs.)	Provided
1	Farthest point (Most Remo the door to an Exit.	ote Point) With in a storey	or a mezzanine floor to	30.00	29.00
2	2 The Dead end of the corridor length in exit access. (6 mtrs for Educational, Institutional and Assembly, 15mtrs for other Occupancies) 6.00 4.80				4.80
7. St	air Cases (As per NBC 201	6)			1
SI.n	o Type of staircases	Width (In Mtrs)	No of staircases	Floors from	loors to
1	Internal staircases	1.80	2	Ground T	errace
2	External staircases	1.50	2	Ground 1	errace
8)Me	eans of Escape Floor Wise I	Details		M	C

Sl.n o	Floor type	Buil-up Area in Sq.Mtrs	Type of Occupancy	Occupan t Load	Means of escape required as per table 21 of NBC	Means of escape Provided
1	Groun	1447 50	EDUCATIONAL B-2 All	362.00	3 62	16.00
1	d	1117.50	others/training institutions	502.00	5.02	10.00
2	1st	1447 50	EDUCATIONAL B-2 All	362.00	2.00 3.62	6 60
2	Floor	1447.30	others/training institutions			0.00
2	2nd	1447.50	EDUCATIONAL B-2 All	362.00	3.62	6.60
3	Floor		others/training institutions			
1	3rd	1447.50	EDUCATIONAL B-2 All	362.00	3.62	6.60
4	Floor		others/training institutions			0.00
5	4th	1447.50	EDUCATIONAL B-2 All	262.00	2.60	6.60
	Floor		others/training institutions	302.00	5.02	0.00

9).Fire Shaft as per clause 2.24 and ANNEX E (E-2) of part 4 NBC 2016.

Item / Description	Required	Provided
Fire Shaft / Fire Lift	1	1

10). 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	Ground	8.00	2.00	0.00	2.00	0.00
2	1st Floor	8.00	2.00	0.00	2.00	0.00
3	2nd Floor	8.00	2.00	0.00	2.00	0.00
4	3rd Floor	8.00	2.00	0.00	2.00	0.00
5	4th Floor	8.00	2.00	0.00	2.00	0.00

11). Fire Fighting Installations as per Table 7 of NBC 2016.

Fire Fighting System.	Required As per NBC	Provided
Fire Extinguishers	40.00	40
First Aid Hose Reel	10.00	10
Down Comer	2.00	2
Manually Operated Electronic Fire Alarm Systems	10.00	10
Terrace Tank over Respective Tower Terrace in Litres	25000.00	25000
Pump Capacity in LPM at the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²	900.00	900

12). The 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 baying
	fire resistance rating of not less than 120 min. This shall exclude requirement of fire stop sealing for low voltage
	and resistance rating of not less than 120 min. This shall exclude requirement of the stop scaling for low voltage
	services shart. For plumoing sharts in the core of the bundning, with shart door opening inside the bundning, the
	sharts shall have inspection doors having fire resistance rating not less than 30 min
	e) For plumbing sharts in the core of the building, with shart door opening inside the building, the sharts 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
2.	provide the following:
-·	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
2	practice [4(6)] and 8. Building Services, Section 2 Electrical and Allied Installations. Of the Code.)
5.	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 numps
	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
	t) Fire alarm system
	a) Public address (PA) system (relating to emergency voice evacuation and annunciation)
	b) Magnetia deer hold open devices
	i) Lighting in fire commond contro and convrity room
	1) Lighting in fire command centre and security 10011
	I) rower suppry to mese systems and equipment shall be from IN course and IN course (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
11	

	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.
	OII 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 / m away from the adjoining building(s).
6.	Substation equipment (exceeding oil capacity of 2 000 litre) in utility building shall have fire rated barrie walls
	of 240 min rating constructed between such equipment, raised to at least 600 mm above the neight of the
	equipment (including height of oil conservators) and exceeding 300 mm on each side of the equipment. All
	nitrogen injection system
	Introgen injection system.
	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
	numpose 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 senarated 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
0	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
11	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;
	(1) providing adequate illumination along such routes to allow safe movement of persons towards and through
	the exits; and
	in) ensuring that fire alarm call points and firefighting equipment provided along the escape routes can be
	Icauly localed.
	u) The nonzontal luminance at moor level on the centreme of an escape route shall not be less than 10 lumon/m2. In addition, for assame routes up to 2 m yride, 50 percent of the route width shall be lit to a wining
	of 5 lumen/m2. In auditoriums, theatree, concert halls and such other places of assembly, the illumination of
	floor evit/access may be reduced during period of performances to values not loss than 2 law
	a) Required illumination shall be arranged such that the failure of any single lighting unit, such as the burning
	out of one lumination shall be all any area in darkness and does not impade 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 90
	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 be
	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,
	vi) Outside each final exit and close to it,
	VII) Near each fire alarm call point,
	viii) Near firefighting equipment, and
	ix) To illuminate exit and safety signs as required by the enforcing authority.
	1) The luminalities shall be mounted as low as possible, but at least 2 m above the floor level.
	j) Signs are required at an exits, emergency exits and escape routes, which should comply with the graphic
	Exit passage way Dravided as nor alayse 3.47.2 (at ground) and stairages lighting is to be connected to
12	elternative supply. The alternative source of supply may be provided by bettery continuously trickle charged
12.	from the electric mains
	Suitable arrangements as per clause 3473 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 348 Air conditioning and ventilating
	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
17.	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 -3482
	a) From fire safety point of view separate air handling units (AHU) for each floor shall be provided so as to
15	avoid the hazards arising from spread of fire and smoke through the air conditioning ducts. The air ducts shall be
10.	separate from each AHU to its floor 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.
	Air handling unit shall be provided with effective means for preventing circulation of smoke through the system
	in the case of a fire in air filters or from other sources drawn into the system, and shall have smoke sensitive
	devices for actuation in accordance with the accepted standard [4(8)] and control.
	b) As per Clause 3.4.8.2.2 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.
	c) As per Clause 3.4.8.2.3 The air filters of the air handling units are made of non-combustible materials.
	d) Duct Work as per Clause 3.4.8.3 3.4.8.3.1 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.
	e) As per Clause 3.4.8.3.2 As far as possible, metallic ducts shall be used even for the return air instead of space
	above the false ceiling.
	f) As per Clause 3.4.8.3.3 Wherever the ducts pass through fire walls or floors, the opening around the ducts
	shall be sealed with materials having fire resistance rating of the compartment. Such duct shall also be provided
	with fire dampers at all fire walls and floors unless such ducts are required to perform for fire safety operation;
	and in such case fire damper may be avoided at fire wall and floor while integrity of the duct shall be maintained
	with 120 min fire resistance rating to allow the emergency operations for fire safety requirements.
	g) As per Clause 3.4.8.3.4 The ducting within compartment would require minimum fire resistance rating of 30
	min. Such ducting material in substantial gauge shall be in accordance with good practice [4(9)]. If such duct
	crosses adjacent compartment/floor and not having fire dampers in such compartment/floor, it would require fire
	resistance duct work rating of 120 min. The requirements of support of the duct shall meet its functional time
	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 cleaning
	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 located in
	supply air ducts, fresh air and return air ducts/ passages at the following points:
	1) At the fire separation wall,
	11) Where ducts/passages enter the vertical shaft,
	111) Where the ducts pass through floors, and
	1V) 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 file 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
	Claring as non Clause 3.4.10.1 The glazing shall be in accordance with Part 6. Structural Design Section 8
	Glass and Clazing's of the Code. The antire 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 Dart related to respective uses as specified
	therein i) The use of class shall not be permitted for englosures of exits and exit passageway
	Fire Command Contro (ECC) as nor Clause 3.4.12
	a) Fire command centre shall be on the entrance floor of the building having direct access. The control room
17.	a) The command centre sharp be on the entrance noor of the bunding naving direct access. The control room 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 building may
	also he from the same room
	c) Details of all floor plans along with the details of firefighting equipment and installations (2 sets laminated
	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.
	4.2.1 7f) 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 $-4.4.1$
10	a) in order to ensure that each element of the means of egress can be effectively utilized, they shall all be
19.	property in and marked. Lighting shall be provided with emergency power back-up in case of power failures.
	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 meman's fift 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.		
	Smoke control of exits as per Clause – 4.4.2.5 The pressure difference for staircases shall be 50 Pa.Pressure		
	differences for lobbies (or corridors) shall be between 25 Pa and 30 Pa. Further, the pressure differential for		
20.	enclosed staircase adjacent to such lobby (or corridors) shall be 50 Pa. For enclosed staircases adjacent to non-		
	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		
	requirements of emergency services. When the emergency pressurization is brought into action the following		
21.	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:		
	i) The construction of the ductwork and fans is such that it will not be rendered inoperable by hot gases and		
	smoke: and		
	iii) There is no danger of spread of smoke to other floors by the path of the extraction system which can be		
	any mere is no danger of spread of smoke to other noors by the path of the extraction system when can be		
	Ensured by Keeping the extraction fails fulfilling.		
22.	For pressurized star enclosure systems, the activation of the systems shall be initiated by signathing from the		
	alarm panel.		
23.	Pressurization system shall be integrated and supervised with the automatic/manual life alarm system for		
	actuation Whenever preserving distances is to be segmented to compressive discuss (1, (, , , , 1, 11)) (1, 1, 12)		
24.	Wherever pressurized staircase is to be connected to unpressurized area, the two areas shall be segregated by 120		
	min fire resistant wall.		
25.	Fresh air intake for pressurization shall be away (at least 4 m) from any of the exhaust outlets/grille.		
	Smoke Control as per clause – 4.6		
26	a) Smoke Exhaust and Pressurization of Areas Above Ground Corridors in exit access (exit access corridor) are		
20.	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 with		
	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		
	a) Each basement shall be separately ventilated. Vents with cross-sectional area (aggregate) not less than 2.5		
27.	percent of the floor area spread evenly round the perimeter of the basement shall be provided in the form of		
	grills or breakable stall hoard 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 he as given in Part 8 Building Services Section 3 Air conditioning Heating and Mechanical		
	Ventilation of the Code		
	v chunauoni of the Cour. d) In multi level becoments independent air inteke and smake exhaust shafts (masonry or reinforced correcte)		
	(a) in multi-rever basements, independent an intake and smoke exhaust sharts (masonity of reinforced concrete)		
	for respective basement revers and compartments therein shall be planned with its make-up air and exhaust air		
	Tans located on the respective level and in the respective compartment. Alternatively, in multi-level basements,		
	common make masonry (or remorced cement concrete) shart may serve respective compartments aligned at all		
L			

	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				
e) Due consideration shall be taken for ensuring proper drainage of such shafts to avoid insanitation				
	Inlets and extracts may be terminated at ground level with stall board or pavement lights as before. Stall board			
	and payement 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			
f) Smoke from any fire in the basement shall not obstruct any evit serving the ground and upper flo				
building				
Duilding. (a) The smaller exhaust forg in the machenical contribution system shall be fire roted, that is 25090 f				
g) The smoke exhaust rans in the mechanical ventilation system shall be fire rated, that is, 250°C for 120 b). The smoke ventilation of the begement our parking arous shall be through provision of surgly and an				
	ducts duly installed with its supports and connected to supply air and exhaust fans. Alternatively, a system of			
	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 fang			
	(i) Fong shall be fire roted, that is 250°C for 120 min			
	(ii) Fails shall be adequately supported to enable operations for the duration as above			
	in) Fails shall be adequately supported to enable operations for the duration as above.			
	(v) I ower supply parents for the faits shall be focated in file safe zone to ensure continuity of power supply.			
	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/gwitch' shall be provided for operations by the fire			
	fighters			
	inginers.			
	(j) Visual indication of the operation status of the fails shall also be provided with the remote control.			
	k) No system relating to smoke ventuation shall be anowed to interface of cross the transformer area, electrical			
	Switchboard, electrical footils of exits.			
	1) Shoke exhaust system having make-up an and exhaust an system for areas other than car parking shall be			
	required for common areas and exit access corridor in pasements/underground structures and shall be completely			
	required for common deut of the develop contract in customers, and efficiently and the completely			
	separate and independent of car parking areas and other mechanical areas.			
	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.			
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	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 planned		
	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. Such		
hydrant cabinet may finish with doors to meet interior finishes with requirement of glass panel to p			
visibility to the installations inside and inscribed with the word: FIRE HOSE CABINET of letter size			
	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 therein		
	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		
	D The static storage water sumply required for the above mentioned nurrage shall entirely be accessible to the		
	f) The static storage water supply required for the above mentioned purpose shall entirely be accessible to the		
	insertion of sustion has a star As an alternative to the arrangement of manholes to allow access from the ton		
	suitable arrangement to enable efficient access to the tank by the firemen from the adjoining fire numn room		
	suitable arrangement to enable efficient access to the tank by the memory fire water storage tank(s) shall not		
	having uncer access from the ground level, shall be made. The underground file water storage tank(s) shall not be more than 7 m in denth 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 nump with capacity 1 400 litre/min) instantaneous male inlets arranged		
	in a valve hox 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.		
	i) 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.		
	t) 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.		
	n) Pump nouse shall be sufficiently large to accommodate all pumps, and their accessories like PRVs,		
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	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			
	accordance with good practice $[4(20)]$.			
b) If selective sprinklering is adopted, there is a real danger of a fire starting in one of the unsprink				
gathering momentum spreading to other areas and reaching the sprinklered areas as a fully developed				
	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 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 m ² 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			
	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 value outside the buildings in addition to water goings in such asso			
	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			
	electrical fooms.			
	1) Kamps at all levels shall be protected with sprinklers.			
	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 F). 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 ner E-2 of Annexure E of nart 4 NRC of India 2016 FCRESS AND FVACUATION			
	STRATEGY			
	SINALEGI a) One firefighting shaft shall be planned for each residential building/tower in an advectional building/bl			
3/	and for each compartment of institutional assembly business and mercantile occupancy types. For other			
57.	accuracy types, requirement of fire fighting shaft shall be accertained in consultation with the local fire			
	authority. The firefighting shaft shall necessarily have connectivity directly to exit discharge or through exit			
	nassageway (baying 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			
	F 2 FCPESS AND EVACUATION STDATECY The firefighting shofts have connectivity directly to evit			
35.	discharge or through evit passageway (having 120 min fire resistance walls) to evit discharge			
	Smalle control as nor clouge 4.4.2.5 Staircase and fire lift labby of a fireficiting shaft shall be smalle controlled			
	sincke control as per clause 4.4.2.5 staticase and file introduction requirement for staticases in firefighting shaft and for other fire exit			
26	as per 4.4.2.3 and Table 0. The pressurization requirement for stancase in interigrating shart and for other file exit			
50.	stancases in buildings greater than 60 in in height be evaluated to finit 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			
27	PIESSUIZATION, GOOF Area/within and GOOF Closure shall be planned in consideration to the above.			
51.	FIKE SAFETY KEQUIKEMENTS FOR LIFTS as per clause E-3 of Annexure E of part – 4 NBC of India 2016			
	E-4 HOKIZON I AL EATI S/KEFUGE AKEA Horizontal exits are through a fire door of 120 min rating in a			
	The resistant wall High rise apartment buildings with apartments having balcony, need not to be provided with			
38.	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			
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	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				
20	a) The specific requirements for electrical installations in multi-storeyed buildings given in Part 8 .Building				
39.	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 su	bmited the compliance certificate by th	ne respective technical consultant, Architect, structural,		
40.	Electrical, HVAC Engineers and fire safety consultants.				
	3.4.10.2 Glass	facade shall be in accordance with the	following:		
	a) For fully sp	rinklered buildings having fire separati	on 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 sprinl					
	within 600 mr	n of the glass facade providing full cov	erage 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 sl	hall be suitably distributed on each floo	r based on occupant Concentration. These shall not be		
	limited to cub	icle areas and shall be also located in co	ommon areas/corridors to facilitate access by the building		
	occupants and	fire personnel for smoke exhaust in tir	nes of distress.		
42.	ATRIUM Fire	e safety as per Annexure-F (Clause-6) c	of part – 4 NBC of India 2016		
	Compartmen	tation as per clause - 4.5			
	4.5.2 All floor	s shall be compartmented/zoned with a	rea of each compartment being not more than 750 m ² . The		
43.	maximum size of the compartment shall be as follows, in case of sprinklered basement/building:				
	SI. NO	Use Dugin and huildin an	Compartment-ation Area m2		
	0	Business buildings	3000		
13) In	view of the ab	ove and as per recommendations of the	multistoried building inspection Committee, the No		
Objection Certificate for Occupancy is issued to Multi Storied Building AITS, SURVEY NO: 17/AA, 17/, 17/21,					
SITUATED AT PIGLIPUR (VILLAGE), BATASINGARAM(POST), HAYATH NAGAR (MANDAL) R.R.					

DIST, T.S/-Piglipur/Hayathnagar/Rangareddy

with a height of **20.00** Meters for **EDUCATIONAL B-2** All others/training institutionsOccupancy subject to the following conditions, which also include the responsibilities of the Builder ,Management Body of the building, Occupants and fire and security personnel.

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 	All the escape/exit roots shall not be kept locked/blocked or encroached	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 management.	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.
3	Addition / alteration, if any in the building may be verified by building	Mock drills should be conducted once in 3 months	All security personnel shall be trained to operate the fire safety equipment during

	authority.	for initial two years. Thereafter, once in every 6 months.	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.

14.Additional Fire Safety Measures Recommended by the Department:

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This 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, Director General of State Disaster Response & Fire Services Telangana, Hyderabad

Copies to: i) The Management ii) Multistoried Building Inspection Committee

"THIS IS COMPUTER GENERATED DOCUMENT AND DO NOT REQUIRE ANY STAMP OR SIGNATURE"