FIRE SAFETY CERTIFICATE

	1	1		
No. Į	40	una	2023	79

Dated: 12 5 2023

Certified that the BIRLA OPEN MINDS SCHOOL, at Bommakal Village, Karimnagar Rural Mandal of Karimnagar Dist. Telangana State comprised of 11 Rooms in Ground Floor basement(s) and 11 Rooms in First Floor, 15 Rooms in Second Floor and 15 Rooms in Third Floor (Total 52 Rooms) (upper floors) owned / occupied by BIRLA OPEN MINDS SCHOOL have complied with the fire prevention and fire safety requirements in accordance with rule of State/ UT Fire Service Rules, and verified by the officers concerned of Fire Service on (date of inspection) in the presence of Mr. Gunda Srikanth and that the building/premises is fit for occupancy up to classes Nursery to X. With effect from 2023-2024 for a period of three years in accordance with rule and subject to compliance of specific conditions as appended:

accordance mentione and subject to com	pliance of specific contations as appendica.
1. Regular Cheeleng of fire fi	ghting ewipment
2	
3.	
4.	
Issued on 12 of win (date of issue)	at Kowimnogov (place) by
*Strike out whichever is not applicable.	STATION FIRE OFFICE
	Signature with Seal:
	Name: Promethwar
	Designation:SFD
	Name & Address of Department/ Office:
To The Principal,	J
Birla Open Minds School,	
Bommakal, Karimnagar	
(Name & Address of the Institution)	
FI	NDORSEMENT

The No Objection Certificate issued by Fire Service stand cancelled an annulled due to ______ (reasons to be recorded).

(Name and designation of the authorized signatory)

^{*} The filled up certificate should be either in Hindi or English. If it is issued in vernacular language, translated notarized version in English be uploaded along with the original vernacular certificate as a single pdf.



GOVERNMENTOFTELANGANA STATEDISASTERRESPONSE&FIRESERVICESDEPARTMENT NO OBJECTION CERTIFICATE FOR OCCUPANCY



From
TheDirectorGeneral
State Disaster Response and Fire Services,
Telangana, Hyderabad.

To, DASARI MANOHAR REDDY, H.NO:1-2-12/1, HANUMANNAGAR, PEDDAPALLI.

	Ack.No.449030002022Dated:11/07/2022	
Sir,		
Sub:	TELANGANASTATEDISASTERRESPONSE&FIRESERVICE	
	DEPARTMENT	
	Issue of No Objection Certificate for Occupancy to the Multi storeyed	100 to
	Building of BIRLA OPEN MINDS.INTERNATIONAL	
	SCHOOL,IN SY NO:-29,30,31&49, BOMMAKAL(V),	
	KARIMNAGAR(Dist), TELANGANA STATE./-	E371,017 B1163
	Karimnagar/Karimnagar, Hyderabad–Regarding.	
	1. AcknowledgementNo449030002022	
Ref:	2. ThisOfficeProvisionalNOCAck/RCNo.0dt.	
Kei:	3. Multi-Storeyed Building Inspection Committee Report,.	
	Hyderabad Ack. No. 449030002022, dt. 11/07/2022	



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-1 Schools up to senior secondary level. Nowthe builder has constructed the Multi Storeyed Building with 1 Ground, 4 Floors, with a height of 18.10Meters for EDUCATIONAL B-1 Schools up to senior secondary level Occupancy and requested for No Objection Certificate for Occupancy.

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

	Sl.No	Side	OpenspaceRequiredasperProvisionalNoObjectionCertificate	OpenspaceProvided
a	1	North	7.00	10.00
	2	South	7.00	8.00
	3	East	7.00	9.75
	4	West	7.00	8.00

Thisisnotsteppedtypebuilding.

b	Sl.No	GateWidthAsperNBC2016	Required	Provided
	1	Entrygatewidth	6.00	6.00
	2	EntryGateHeadClearance	4.50	6.00
	3	ExitGateWidth	6.00	6.00
	4	ExitGateHeadClearance	4.50	6.00

6.TravelDistance

Sl. No.	Item/Description	Required(NotMore thaninMtrs.)	Provided
1	Farthestpoint(MostRemotePoint)Withinastoreyoramezzaninefloorto thedoortoanExit.	30.00	15.00

2	TheDeadendofthecorridorlengthinexitaccess.(6mtrsforEducational,	6.00	6.00
	InstitutionalandAssembly,15mtrsforotherOccupancies)	0.00	0.00
7 Sta	airCases(AsperNBC2016)		

/ tall .	built Custos (Tisperi (B C2010)				
Sl.no	Typeofstaircases	Width(InMtrs)	Noofstaircases	Floorsfrom	Floorsto
1	Internalstaircases	2.00	1	Ground	Terrace
2	Internalstaircases	1.52	1	Ground	Terrace
3	Internalstaircases	1.50	1	Ground	Terrace
4	Externalstaircases	2.00	1	Ground	Terrace

8)MeansofEscapeFloorWiseDetails

Sl.n o	Floor type	Buil-upArea in Sq.Mtrs	TypeofOccupancy	Occupan t Load	Means of escape required as per table 21 of NBC	Meansof escape Provided
1	Groun	1530.90	EDUCATIONALB-1Schools	383.00	3.83	7.02
1	d	1330.70	uptoseniorsecondarylevel	363.00	3.03	7.02
2	1st	1916.37	EDUCATIONALB-1Schools	479.00	4.79	7.02
	Floor	1710.37	uptoseniorsecondarylevel	479.00	1.79	7.02
3	2nd	1852.12	EDUCATIONALB-1Schools	463.00	4.63	7.02
	Floor	1032.12	uptoseniorsecondarylevel	+03.00	4.03	7.02
4	3rd	1832.97	EDUCATIONALB-1Schools	458.00	4.58	7.02
_	Floor	1032.77	uptoseniorsecondarylevel	750.00	7.30	1.02
5	4th	1832.97	EDUCATIONALB-1Schools	458.00	4.58	7.02
	Floor	1032.77	uptoseniorsecondarylevel	750.00	7.50	7.02

9). FireShaftasperclause2.24andANNEXE(E-2) of part4NBC2016.

Item/Description	Required	Provided
FireShaft/FireLift	1	1

10).FloorWisedetailsofFireFightingInstallations:

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	1stFloor	10.00	2.00	0.00	2.00	0.00
3	2nd Floor	10.00	2.00	0.00	2.00	0.00
4	3rd Floor	10.00	2.00	0.00	2.00	0.00
5	4th Floor	10.00	2.00	0.00	2.00	0.00

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

FireFightingSystem.	RequiredAs perNBC	Provided
FireExtinguishers	48.00	50
FirstAidHoseReel	10.00	20
DownComer	2.00	4
ManuallyOperatedElectronicFireAlarmSystems	10.00	20
CapacityofTerraceTankoverRespectiveTowerTerraceinLitres	25000.00	40000
PumpcapacityinLPMattheTerraceTanklevelwithminPressureof3.5Kg/CM^2	900.00	900
No.ofTerraceTanksoverRespectiveTowerinltrs	1	1
No.ofPumpsattheTerraceTanklevelwithminpressureof3.5Kg/Cm^2	1	1

12). The builder has provided the following additional Fire Safety Requirements as per NBC of India 2016:

Sl.No FiresafetyItem

FloorOpeningsFireProtectionasperClause3.4.5.4

a) Openings in Service ducts and shafts allowing building services like cables, Electrical wirings, Telephone 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)Theinspectiondoorforelectricalshafts/ductshavefireresistanceratingof120min

	c)Mediumandlowvoltagewiringrunninginshafts/ductsarearmouredtypeorrunthroughmetalconduits.				
_	d)Thespacebetweentheelectricalcables/conduitsandthewalls/slabsarefilledinbyafirestopmaterialhaving				
	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				
	<u>, </u>				
	e)Forplumbingshaftsinthecoreofthebuilding, withshaftdooropening inside the building, the shafts shall				
	haveinspectiondoorshavingfireresistanceratingnotlessthan30min				
	VerticalopeningsFireProtectionasperClause-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:				
	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.Furtheritshallbeensuredtoprovideaclearheightof2100mmintheexitaccess.				
	b)Limitationofdamagetothebuildinganditscontents.				
	ElectricalInstallationasperClause-3.4.6				
	(For requirements regarding installations from the point of view of fire safety, reference may be made to good				
	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				
	lightingorotherservices, above false ceiling, shall have 660 V grade insulation.				
	b)Theelectricdistributioncables/wiringarelaidinaseparateshaft. Theshaftissealedateveryfloorwithfire				
	stop materials having the same fire resistance as that of the floor. High, medium and low voltage wiring				
	runningin shaft and in false ceiling shall run in separate shaft/conduits.				
	c)Watermains, gaspipes, telephonelines, intercomlines or any other service lines hall not be laid in the duct				
	forelectricalcables; use of bus ducts/solidrising mains instead of cables is preferred.				
	EmergencypowerforfireandlifesafetysystemsasperClause-3.4.6.2				
	Emergency power supplying distribution system for critical requirement for functioning of fire and life safety				
	system and equipment planned for efficient and reliable power and control supply to the following systems and				
	equipment is provided				
	a)Firepumps.				
	b)Pressurizationandsmokeventing;includingitsancillarysystemssuchasdampersandactuators.				
	c)Firemanslifts(includingalllifts).				
	d)Exitsignagelighting.				
	e)Emergencylighting.				
	f)Firealarmsystem.				
	g)Publicaddress(PA)system(relatingtoemergencyvoiceevacuationandannunciation).				
	h)Magneticdoorholdopendevices.				
	i)Lightinginfirecommandcentreandsecurityroom				
	j)Powersupplytothesesystemsandequipmentshallbefromnormalandemergency(standbygenerator)power				
	sources with changeover facility. If power supply, is from HV source and HV generation, the transformer				
	shouldbe planned in standby capacity to ensure continuity of power to such systems.				
	k)WherevertransformersareinstalledathigherlevelsinbuildingsandbackupDGsetsareofhighervoltage				
	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.				
	l)Thegeneratorshallbecapableoftakingstartingcurrentofallthefireandlifesafetysystemsandequipmentas				
	above.				
	m)WhereparallelHV/LVsupplyfromaseparatesubstationfedfromdifferentgridisprovidedwithappropriate				
	transformerforemergency,theprovisionofgeneratormaybewaivedinconsultationwiththeAuthority.				
	n)Thepowersupplytothepanel/distributionboardofthesefireandlifesafetysystemsshallbethroughfire				
	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)Itshallbeensuredthatthecablingfromtheadjoiningfirecompartmentisprotectedwithinthecompartment				
	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 origin by an automatic circuit breaker with its no-volt coil removed. Master switches controlling				
	essential service circuits shall be clearly labeled.				
	p)CablesforfirealarmandPAsystemshallbelaidinmetalconduitsorarmouredtoprovidephysical				
	segregationfromthepowercables				
	Substation/TransformersfiresafetyasperClause-3.4.6.3				

	a)Thesubstationareaisadequately ventilated.					
	b)Anindependent, ventilated or air conditioned MV panelro om 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)Ifthelicenseesagreetoprovidemetersonupperfloors, thelicensees' 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)ElectricalMVmaindistributionpanelandliftpanelsareprovidedwithCO2/inertgasfloodingsystemforall					
	panelcompartments with a cylinder located beside the panel.					
	OilfilledsubstationfiresafetyasperClause–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					
	wallsof 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					
	nitrogeninjectionsystem.					
	DrytypesubstationfiresafetyasperClause-3.4.6.3.2Transformerslocatedinsideabuildingshallbeofdry					
	type and all substation/switch room walls, ceiling, floor, opening including doors shall have a fire resistance					
	rating of 120 min. Access to the substation shall be provided from the nearest fire exit/exit staircase for the					
	purpose of electrical isolation.					
	Standbysupplyasperclause-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					
•	installed indoors, proper ventilation and exhaust shall be planned. The DG set room shall be separated by 120					
	min fire resistance rated walls and doors.					
	b)TheoiltankfortheDGsets(ifnotinthebaseoftheDG)shallbeprovidedwithadykedenclosurehavinga					
	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.					
	Lightningprotectionofbuildingsasperclause–3.4.6.5Routingofdownconductors(insulatedor					
	uninsulated) of lightning protection through electrical or other service shafts are not allowed as it can create fire					
٠.	and explosion during lightning. For details, see Part 8 .Building Services, Section 2 Electrical and Allied					
	Installations' of the Code.					
	EscapeLightingandExitSignageasperClause3.4.7Exitaccess, exits and exit discharges hall be properly					
0.	identified, with adequate lighting maintained in the elements of the egress systems so that all occupants shall be					
٠.	able to leave the facility safely.					
	LightingasperClause–3.4.7.1					
	a) The exit, exit access and exit discharge systems shall be illuminated continuously. The floors of the means of					
1.	egress shall be illuminated at all points, including angles and intersections, in corridors and passageways,					
	stairwells, landings of stairwells and exit.					
	b)Emergencylightingshallbepoweredfromasourceindependentofthatsupplyingthenormallighting.					
	c)Escapelightingshallbecapableof,					
	i)indicatingclearlyandunambiguouslytheescaperoutes;					
	ii)providingadequateilluminationalongsuchroutestoallowsafemovementofpersonstowardsandthrough					
	theexits;and					
	iii)ensuringthatfirealarmcallpointsandfirefightingequipmentprovidedalongtheescaperoutescanbe					
	readilylocated.					
	d)Thehorizontalluminanceatfloorlevelonthecentrelineofanescaperouteshallnotbelessthan10					
	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/m 2. In auditoriums, the atres, concert halls and such other places of assembly, the illumination of the concert halls and such other places of assembly, the illumination of the concert halls and such other places of assembly.					
	floor exit/access may be reduced during period of performances to values not less than 2 lux.					
	e)Requiredilluminationshallbearrangedsuchthatthefailureofanysinglelightingunit, suchastheburning					
	out of one luminaire, will not leave any area in darkness and does not impede the functioning of the system					
	further.					
	f)Theemergencylightingshallbeprovidedtobeputonwithin5softhefailureofthenormallightingsupply.					
	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)Batterypackemergencylighting,becauseofitslimiteddurationandreliability,shallnotbeallowedtobe					
	usedinlieuofadieselenginedrivenemergencypowersupply.					
	THE PARTITION AND ALCOHOLD AND ALCOHOLD A PARTITION AND A PART					
	h)Escapelightingluminairesshouldbesitedtocoverthefollowinglocations:					

	i)Neareachintersectionofcorridors,
	ii)Atexitsandateachexitdoor,
	iii)Neareachchangeofdirectionintheescaperoute,
	iv)Neareachstaircasesothateachflightofstairsreceivesdirectlight,
	v)Nearanyotherchangeoffloorlevel,
	vi)Outsideeachfinalexitandclosetoit,
	vii)Neareachfirealarmcallpoint,
	viii)Nearfirefightingequipment,and
	ix)Toilluminateexitandsafetysignsasrequiredbytheenforcingauthority.
	i)Theluminairesshallbemountedaslowaspossible,butatleast2mabovethefloorlevel.
	j)Signsarerequiredatallexits,emergencyexitsandescaperoutes,whichshouldcomplywiththegraphic requirementsoftherelevantIndianStandards.
	ExitpassagewayProvidedasperclause—3.4.7.2.(atground)andstaircaselightingistobeconnectedto
12.	alternative supply. The alternative source of supply may be provided by battery continuously trickle charged
	from the electric mains
	Suitablearrangementsasperclause—3.4.7.3Installation of doublethrows witchest oensure that the lighting
13	installed in the staircase and the corridor does not get connected to two sources of supply simultaneously.
13	Double throw switch shall be installed in the service room for terminating the stand-by supply.
	AirConditioning,VentilationandSmokeControlasperclause–3.4.8Airconditioningandventilating
	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
	same shall be segregated by 120 min fire rated construction. Ventilation to the room shall be provided as per
	manufacturer's instructions.
	AirhandlingunitasperClause-3.4.8.2
	a)Fromfiresafetypointofview,separateairhandlingunits(AHU)foreachfloorshallbeprovidedsoasto avoid the hazards
5.	arising from spread of fire and smoke through the air conditioning ducts. The air ducts shall be 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.
	Airhandlingunitshallbeprovidedwitheffectivemeansforpreventingcirculationofsmokethroughthesystem
	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)AsperClause3.4.8.2.2Shaftsorducts, if penetrating multiple floors, shall be of mason ryconstruction 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) Asper Clause 3.4.8.2.3 The air filters of the air handling units are made of non-combustible materials.
	d)DuctWorkasperClause3.4.8.33.4.8.3.1Airductsservingmainfloorareas,corridors,etc,shallnotpass
	through the exits/exit passageway/ exit enclosure. Exits and lift lobbies, etc, shall not be used as return air
	passage.
	e)AsperClause3.4.8.3.2Asfaraspossible, metallic ducts shall be used even for the returnair instead of space
	abovethefalseceiling.
	f)AsperClause3.4.8.3.3Wherevertheductspassthroughfirewallsorfloors, 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)AsperClause3.4.8.3.4Theducting within compartment would require minimum fireresistance 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)AsperClause3.4.8.3.5Thematerialsusedforinsulatingtheductsystem(insideoroutside)shallbeofnon-
	combustible type. Any such insulating material shall not be wrapped or secured by any material of combustible
	nature.
	i)AsperClause3.4.8.3.6Inspectionpanelsshallbeprovidedintheductworktofacilitatethecleaning
	accumulateddustinductsandtoobtainaccessformaintenanceoffiredampers.
	j)AsperClause3.4.8.4Fireorfire/smokedampers3.4.8.4.1Thesedampersshallbeevaluatedtobelocatedin
	13/125per Caudoco-110-1111 (100 calculupers). 1.0. 1.1 1 nescalinperssitatioe valuatedioociocatediii

	supplyairducts, freshair and returnairducts/passages at the following points:
	i)Atthefireseparationwall,
	ii)Whereducts/passagesentertheverticalshaft,
	iii)Wheretheductspassthroughfloors,and
	iv)Attheinletofsupplyairductandthereturnairductofeachcompartmentoneveryfloor.
	k)AsperClause3.4.8.4.2Dampershallbeofmotorizedtype/fusiblelink.Dampershallbesoinstalledto
	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.
	GlazingasperClause-3.4.10.1TheglazingshallbeinaccordancewithPart6.StructuralDesign,Section8
16.	GlassandGlazing of the Code. The entire glazing assembly shall be rated to that type of construction as given in Table 1. The 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.
	FireCommandCentre(FCC)asperClause-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)Firecommandcentreshallbeconstructed with 120 minrating walls with a firedoor 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.
	Monitoringofintegratedbuildingmanagementsystems, CCTV soranyother critical parameters in building may
	alsobefromthesameroom.
	c)Detailsofallfloorplansalongwiththedetailsoffirefightingequipmentandinstallations(2setslaminated
	andbound)shallbemaintainedinfirecommandcentre.
	d)Thefirestaffinchargeofthefirecommandcentreshallberesponsibleforthemaintenanceofthevarious
	servicesandfirefightingequipment
	GeneralExitRequirementsasperclause-4.24.2.3
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)Fornon-naturallyventilatedareas, firedoors with 120 min fireresistance 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)Doorsinexitsshallopeninthedirectionofexit.Incaseofassemblybuildings(GroupD)and
	institutional buildings (Group C-1), exit door shall not open immediately upon a flight of stair and all
	suchentries 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
	slidingdoors shall not be installed.
	4.2.11 d)Unlessotherwisespecified, alltheexitsandexitpassagewaystoexitdischargeshallhaveaclearceiling
	heightofatleast2.4m.However,theheightofexitdoorshallbeatleast2.0m(seeFig.5).
	4.2.16 e)Suitablemeansshallbeprovidedsothatallaccesscontrolledexitdoors, turnstiles, boombarriers 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.
	4.2.17f)Penetrationsintoandopeningsthroughanexitareprohibitedexceptthosenecessarylikeforthefire
	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.
	ExitAccessasperClause–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.
	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)Exitaccesstofireman's lift and refuge area on the floor shall be step free and clearly sign posted with the
	international symbol of accessibility.
	c)Exitaccessshallnotpassthroughstoragerooms, closets or spaces used for similar purpose.
	SmokecontrolofexitsasperClause-4.4.2.5Thepressuredifferenceforstaircasesshallbe50Pa.Pressure
20.	SmokecontrolofexitsasperClause—4.4.2.5Thepressuredifferenceforstaircasesshallbe50Pa.Pressure differences for lobbies (or corridors) shall be between 25 Pa and 30 Pa. Further, the pressure differential for

	pressurizedlobby(orcorridors),thepressuredifferentialshallbe50Pa.				
	Thenormalairconditioningsystemandthepressurizationsystemshallbedesignedandinterfacedtomeetthe				
	, , , , , , , , , , , , , , , , , , , ,				
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) Anyre-circulation of airshall bestopped and all exhaust airvented to atmosphere.				
	1 1				
	b)Anyairsupplytothespaces/areasotherthanexitsshallbestopped.				
	c)Theexhaustsystemmaybecontinuedprovided,				
	i)Thepositionsoftheextractiongrillspermitageneralairflowawayfromthemeansofegress;				
	ii)Theconstructionoftheductworkandfansissuchthat,itwillnotberenderedinoperablebyhotgasesand				
	smoke;and				
	iii)Thereisnodangerofspreadofsmoketootherfloorsbythepathoftheextractionsystemwhichcanbe				
	ensuredbykeepingtheextractionfansrunning.				
22.	Forpressurized stairenclosure systems, the activation of the systems shall be initiated by signalling from fire				
·Z.	alarmpanel.				
12	Pressurizationsystemshallbeintegratedandsupervisedwiththeautomatic/manualfirealarmsystemfor				
23.	actuation				
	Whereverpressurizedstaircaseistobeconnectedtounpressurizedarea, the two areas shall be segregated by 120				
24.	minfireresistantwall.				
25.	Freshairintakeforpressurizationshallbeaway(atleast4m)fromanyoftheexhaustoutlets/grille.				
<u> </u>	SmokeControlasperclause–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				
	oftennoted in hospitality, health care occupancies and sleeping accommodations.				
	b)Exitaccesscorridorsofguestroomsandindoorpatientdepartment/areashavingpatientslackingself				
	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				
	stopsealing of penetrations.				
	c)Smokeexhaustsystemhavingmake-upairandexhaustairsystemoralternativelypressurizationsystemwith				
	supplyairsystemfortheseexitaccesscorridorsshallberequired.				
	d)Smokeexhaustsystemhavingmake-upairandexhaustairsystemshallalsoberequiredfortheatres/auditoria.				
	Such smoke exhaust system shall also be required for large lobbies and which have exit through staircase				
	leadingto exit discharge. This would enable eased exit of people through smoke controlled area to exit discharge.				
	e)Allexitpassageway(fromexittoexitdischarge)shallbepressurizedornaturallyventilated.Themechanical				
	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)Smokeexhaustsystemwhereprovided,foraboveareasandoccupanciesshallhaveaminimumof12air				
	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)Thesmokeexhaustfansinthemechanicalventilationsystemshallbefirerated,thatis,250°Cfor120min.				
	For naturally cross-ventilated corridors or corridors with operable windows, such smoke exhaust system or				
	pressurization system will not be required.				
	SmokeExhaustandPressurizationofAreasBelowGroundasperclause-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 board lights or pavement lights or by way of shafts.				
	b)Alternatively, asystemof mechanical ventilations ystem may be provided with following requirements:				
	c)Mechanicalventilationsystemshallbedesignedtopermit12airchangesperhourincaseoffireordistress				
	call. However, for be as given in Part 8 Building Services, Section 3 Air conditioning Heating and Mechanical				
	Ventilation of the Code.				
	d)Inmulti-levelbasements,independentairintakeandsmokeexhaustshafts(masonryorreinforcedconcrete)				
	for respective basement levels and compartments therein shall be planned with its make-up air and exhaust airfan				
	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 onrespective				
	layed about he installed in five registing room of 100 min. Exhaust fone at the room at in- lavel about the				
	levels shall be installed in fire resisting room of 120 min. Exhaust fans at the respective levels shall be				
	levels shall be installed in fire resisting room of 120 min. Exhaust fans at the respective levels shall be providedwithbackdraftdamperconnectiontothecommonsmokeexhaustshaftensuringcompleteisolation and compartmentation of floorisolation to eliminate spread of fire and smoketotheother compartments floors.				

e)Dueconsiderationshallbetakenforensuringproperdrainageofsuchshaftstoavoidinsanitationcondition. 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 INLETG SMOKE OUTLET with an indication of area served at or near the opening. f)Smokefromanyfireinthebasementshallnotobstructanyexitservingthegroundandupperfloorsofthe building. g)Thesmokeexhaustfansinthemechanicalventilationsystemshallbefirerated,thatis,250°Cfor120min. h)Thesmokeventilationofthebasementcarparkingareasshallbethroughprovisionofsupplyandexhaustair 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)Structuralaspectsofbeamsandotherdownstands/servicesshallbetakencareofintheplanningandprovision offtejetfans. ii)Fansshallbefirerated,thatis,250°Cfor120min. iii)Fansshallbefirerated,thatis,250°Cfor120min. iii)Pansshallbeadequatelysupportedtoenableoperationsforthedurationasabove. iv)Powersupplypanelsforthefansshallbelocatedinfiresafezonetoensurecontinuityofpowersupply. v)Powersupplycablingshallmeetcircuitintegrityrequirementinaccordancewithacceptedstandard[4(13)]. i)Thesmokeextractionsystemshalloperateonactuationofflowswitchactuationofsprinklersystem.In addition, a local and/or remote .manual start-stop control/switch' shall be provided for operations by the fire fighters. j)Visualindicationoftheoperationstatusofthefansshallalsobeprovidedwiththeremotecontrol. k)Nosystemrelatingtosmokeventilationshallbeallowedtointerfaceorcrossthetransformerarea,electrical switchboard,electricalroomsorexits. D)Smokeexhaustsystemhavingmake-upairandexhaustairsystemforareasotherthancarparkingshallbe required for common areas and exit access corridor in basements/underground structures and shall be completel separate and independe
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systems, gaseous or dry powder system, manual/automatic fire alarm system, etc, in accordance with the
provisions of various clauses given below, as applicable:
a) These fire extinguishing equipment and their installation shall be in accordance with accepted
standards[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
requirementsregardingsizeofmains/risersshallbeasgiveninTable8.Thetypicalarrangementsofdown- comer and we
riser installations are shown in Fig. 13. The wet riser shall be designed for zonal distribution
ensuringthatundulyhighpressuresarenotdevelopedinrisersandhose-pipes.
b)First-aidfirefightingappliancesshallbeprovidedandinstalledinaccordancewithgoodpractice[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)Valvesinfixedfirefightinginstallationsshallhavesupervisoryswitchwithitssignallingtofirealarmpanelor
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)Inadditiontowetriserordown-comer,first-aidhosereelsshallbeinstalledinbuildings(whererequired
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)Wetrisersshallbeinterconnectedatterraceleveltoformaringandcut-offshallbeprovidedforeach
connectiontoenablerepair/maintenancewithoutaffectingrestofthesystem.
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	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				
	plannedto provide orifice plates for landing valves to control pressure to desired limit especially at lower levels;				
	this				
	couldalsobeachievedthroughothersuitablemeansofpressurereducingdevicessuchaspressurecontrolled				
	i i				
	hydrantvalves. g)Hydrantsforfirefightingandhosereelsshallbelocatedinthelobbyinfirefightingshaft. Thosehydrants				
	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 providevisibility				
	to the installations inside and inscribed with the word: FIRE HOSE CABINET of letter size 75 mm in				
	heightand12mminwidth.Suchdoorofthefirehosecabinetneednotbefireresistantrated.Thelocationof such cabinets				
	shall be shown on floor plan and duly displayed in the landing of the respective fire exit staircase.				
	Staticwaterstoragetanksasperclause–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)Waterforthehydrantservicesshallbestoredinaneasilyaccessiblesurface/undergroundlinedreservoiror				
	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)Waterforfirefightingshallbestoredintwoormoreinterconnectedcompartmentsofequalsizetofacilitate				
	cleaning and maintenance of the tanks without interrupting the water availability for fire fighting.				
	d)Topreventstagnationofwaterinthestaticwaterstoragetank,thesuctiontankofthedomesticwatersupply				
	shall be fed only through an overflow arrangement from the fire water storage tanks to maintain the level				
	thereinat the minimum specified capacity.				
	e) Alternatively, domestic and firewater 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)Thestaticstoragewatersupplyrequiredfortheabovementionedpurposeshallentirelybeaccessibletothe				
	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-				
	outconnection shall not be more than 5 m away from the tank wall.				
	g)Thecoveringslabshallbeabletowithstandatotalvehicularloadof45t(orasapplicable)equallydividedas				
	afour-pointloadwhentheslabformsapartofpathway/driveway.				
	h)Thestaticwaterstoragetankshallbeprovidedwithafirebrigadecollectingheadwith4number63mm				
	diameter (2 number 63 mm diameter for pump with capacity 1 400 litre/min) instantaneous male inlets				
	arrangedin a valve box at a suitable point at street level.				
	i)Thesameshallbeconnectedtothestatictankbyasuitablefixedgalvanizedironpipenotlessthan150mmin				
	diameter to discharge water into the tank when required at the rate of 2 250 litre/min, if tank is in the				
	basementor not approachable for the fire engines.				
	j)Eachofthestaticwaterstoragetanksshallalsobeprovidedwithafirebrigadedrawoutcollectingheadwith				
	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.				
21	Firefightingpumphouseasperclause5.1.2.2 Therequirements shall be asgiven 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)Pumphouseshallbeinstallednotlowerthanthesecondbasement.Wheninstalledinthebasement,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)Pumphouseshallbeseparatedbyfirewallsallaroundanddoorsshallbeprotectedbyfiredoors(120min				
	rating).				
	d)Pumphouseshallbewellventilatedandduecareshallbetakentoavoidwaterstagnation.				
	e)Nootherutilityequipmentshallbeinstalledinsidefirepumproom.				
	f)Insertionslikeflexiblecouplings,bellows,etc,inthesuctionanddeliverypipingshallbesuitablyplannedand				
	installed.				
	g)Installationofnegativesuctionarrangementandsubmersiblepumpsshallnotbeallowed.				
	h)Pumphouseshallbesufficientlylargetoaccommodateallpumps,andtheiraccessorieslikePRVs,				
	installationcontrolvalve, valves, dieseltankandelectricalpanel.				
	i)Batteryofdieselengineoperatedfirepumpshallhaveseparatechargerfromemergencypowersupplycircuit.				

	j)Exhaustpipeofdieselengineshallbeinsulatedasperbestengineeringpracticeandtakentoasafelocationat				
	groundlevel, considering the backpressure.				
	k)Firepumpsshallbeprovidedwithsoftstarterorvariablefrequencydrivestarter.				
	AutomaticSprinklerInstallationasperclause–5.1.3Therequirementsshallbeasgivenbelow:				
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 selectives prinkle ring is adopted, there is a real danger of a fire starting in one of the unsprinkle red 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)Automaticsprinklersshallbeinstalledinfalseceilingvoidsexceeding800mminheight.				
	d)InstallationofsprinklersmaybeexcludedinanyareatobeusedforsubstationandDGset.				
	e)Inareashavingheight17morabovesuchasinatria,sprinklerinstallationsmayberenderedineffectiveand				
	hencemaybeavoided.				
	f)Pressureinsprinklersystemshallnotexceed12barorelsehighpressuresprinklertobeinstalledforabove12				
	baroperations.				
	g)Themaximumfloorareaonanyonefloortobeprotectedbysprinklerssuppliedbyanyonesprinklersystem				
	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)Sprinklerinstallationcontrolvalves, shallbeinstalledinsidethefirepumproom.				
	i)Forindustrialbuildings, suchinstallation 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.				
	j)Thesprinklerflowswitchesprovidedshallbemonitoredbyfirealarmpanel. k)Itisessentialtomakeprovisionsforavoidingwaterfromsprinkler/hydrantoperationenteringliftsand				
	electricalrooms.				
	l)Rampsatalllevelsshallbeprotectedwithsprinklers.				
	AutomaticHighVelocityandMediumVelocityWaterSpraySystemsasperclause5.1.4Automatichigh				
	velocity water spray or emulsifying system shall be provided for protection of outdoor and/ or indoor oil-cooled				
3.	transformers as applicable in accordance with good practice [4(21)] where applicable (see Annex E).				
,,,	Also, medium velocity water spray system shall be provided for tankage (where applicable), conveyors, cable				
	galleries and other occupancies listed in good practice [4(21)].				
	FireFightingshaftasperE-2ofAnnexureEofpart4NBCofIndia2016EGRESSANDEVACUATION				
	STRATEGY				
	a) One firefighting shaft shall be planned for each residential building/tower, in an educational building/ block,				
4.	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)Staircaseandfireliftlobbyofafirefightingshaftshallbesmokecontrolledasper4.4.2.5andTable6.				
	c)Itisrecommendedthatthepressurizationrequirementforstaircaseinfirefightingshaftandforotherfireexit				
	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.				
5	E-2EGRESSANDEVACUATIONSTRATEGYThefirefightingshaftshaveconnectivitydirectlytoexit				
55.	dischargeorthroughexitpassageway(having120minfireresistancewalls)toexitdischarge.				
	Smokecontrolasperclause4.4.2.5Staircaseandfireliftlobbyofafirefightingshaftshallbesmokecontrolled				
	as per 4.4.2.5 and Table 6. The pressurization requirement for staircase in firefighting shaft and for other fire exit				
6.	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.				
7.	FIRESAFETYREQUIREMENTSFORLIFTSasperclauseE-3ofAnnexureEofpart-4NBCofIndia2016				
	E-4HORIZONTALEXITS/REFUGEAREAHorizontalexitsarethroughafiredoorof120minratingina				
	fire resistant wall High rise apartment buildings with apartments having balcony, need not to be provided with				
	refugearea; however apartment buildings without balcony shall provide refugeareas given above. Refuge areas for				
88.	refugearea; however apartment buildings without balconyshall provider efugearea 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				
38.	apartment buildings of height above 60 m while having balconies shall be provided at 60 m andthereafter at every				
88.					

20	E-5ELECTRICALSERVICES 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				
		2011tobecomplied.			
	b)Wherevertransformersareplannedathigherfloors,theHTcablesshallberoutedthroughaseparateshaft 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.				
10.	Thebuildersubmited the compliance certificate by the respective technical consultant, Architect, structural, Electrical, HVACE ngineers and fires a fety consultants.				
		3.4.10.2Glassfacadeshallbeinaccordancewiththefollowing:			
4 1.	a) For fully sprinklered buildings having fire separation of 9 m or more, tempered glass in a non-combustible assembly, with ability to hold the glass in place, shall be provided. It shall be ensured that sprinklers are located within600mmoftheglassfacadeprovidingfullcoveragetotheglass.NOTE.Incaseofallotherbuildings, fire resistance rating of glass facade shall be in accordance with Table 1.				
	b)Allgapsbetweenfloor-slabsandfaçadeassemblyshallbesealedatalllevelsbyapprovedfireresistant				
	sealant material of equal fire rating as that of floor slab to prevent fire and smoke propagation from one floor to another.				
	c)Openablepanelsshallbeprovidedoneachfloorandshallbespacednotmorethan10mapartmeasuredalong				
	the external v	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				
	occupantsandfirepersonnelforsmokeexhaustintimesofdistress.				
42. ATRIUMFiresafetyasperAnnexure-F(Clause-6)ofpart—4NBCofIndia2016		se-6)ofpart–4NBCofIndia2016			
	4.5.2 All floo	Compartmentationasperclause-4.5 4.5.2 All floors shall be compartmented/zoned with area of each compartment being not more than 750 m2. The			
13.	maximum size of the compartment shall be as follows, in case of sprinklered basement/building:				
	Sl.No	Use	Compartment-ationAream2		
	6	Businessbuildings	3000		

13)InviewoftheaboveandasperrecommendationsofthemultistoriedbuildinginspectionCommittee,theNo Objection Certificate for Occupancy is issued to Multi Storied Building BIRLA OPEN MIND.INTERNATIONAL SCHOOL,IN SY NO:-29,30,31&49, BOMMAKAL(V), KARIMNAGAR(Dist),TELANGANA STATE./-Karimnagar/Karimnagar

with a height of **18.10** Meters for **EDUCATIONAL B-1 Schools up to senior secondary level**Occupancy.subject to the following conditions, which also include the responsibilities of the Builder, Management Body of the building, Occupants and fire and security personnel.

000	occupants and the and security personner.				
Sl No	BuilderandManagementBody	Occupant	Management Body and fire and security personnel		
1	 -a)Allthefireprotection arrangements shall be maintained in good condition as seen during inspection. -b) Do's and Don'ts in case of fire shallbeprominentlydisplayedin entirebuilding 	_	All the occupants must know the correct method of operation of the fire fighting systems installed.		
2	Anylossoflifeorpropertydueto 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 authority.	Mockdrillsshouldbe conducted once in 3 months for initial two years. Thereafter,onceinevery6	Allsecuritypersonnelshallbetrainedto operate the fire safety equipment during emergency and guiding the occupants in safe evacuation. Call the fire Brigade by dialing
4	ThisNoobjectionCertificatefor occupancyisvalidforoneyearfrom	months. Raisethealarmifthefire cannotbecontrolled,	Attackthefireusingavailablefire equipmentonlyifyoufeelcapableof
Г	thedateofissueofthisletter.	evacuatetheareacompletely at once from the nearest safe exit.	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:

The Builder shall maintain all fire safety measures provided in trim working condition at all times by entering AMC with reputed fire systems provider and conduct periodic fire drills once in every 3monthes duly associating local Fire Officer.

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) Multi storied Building Inspection Committee

"THISISCOMPUTERGENERATEDDOCUMENTANDDONOTREQUIREANYSTAMPORSIGNATURE"