



**Office of the Deputy Director, Fire & Emergency Services,
Command Anantnag.**



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✓ **The Principal,
Jawahar Neveodya Vidyalaya,
Aishmuqam.**

No: DDF&ES-A/F-Prv/2023/602-03

Dated: - 14.03.2023

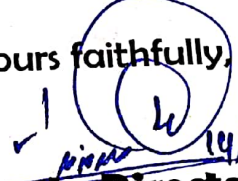
Subject:- Fire Safety Audit in Life Line Buildings of District Anantnag.
Refnce:- This Office letter No. DDF&ES-A/2023/FP/430-34 dated 22.02.2023.

Sir,

Kindly refer to this office letter No. under reference regarding the subject cited above. In this context, the Department deputed a team of experts headed by Assistant Director (Prob.) Fire & Emergency Services Command Anantnag to conduct Fire Safety Audit of Your School. The team after observation recommended the Fire Safety and precautionary measures to life line buildings.

It is, as such, requested that the recommendations given at Annexure- A to this letter may kindly be implemented at an earliest, so that the frequency of fire incidents is restricted, besides ensuring safety of precious lives and valuable property.

Yours faithfully,


14/03/23
Deputy Director,
Fire & Emergency Services,
Command Anantnag.

Copy to the:-

1. Director Fire & Emergency Services J&K, Jammu/Srinagar, for favour of kind information.
2. Deputy Commissioner Anantnag for favour of kind information.

Annexure-A

A. Observations.

Name of the Govt. Office/Institute.	Building Particulars	Existing Fire Safety Measures
Jawahar Novovdya Vidyalaya, Aishmuqam	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has 02 staircases of 1.21 mtr. width each (Academic Block).	16 units of ABC type Fire Extinguishers , out of which 8 No.s are of 5 Kg capacity and 8 No. of 6 kg capacity are installed at different locations.
	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has 04 staircases of 1.21 mtr. width each (Senior Girls Hostel).	
	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has 08 staircases of 1.21 mtr. width each (Senior Boys Hostel).	
	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has 01 staircase of 1.21 mtr. width each (Junior Girls Hostel).	
	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has 01 staircases of 1.21 mtr. width each (Junior Boys Hostel).	
	▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has single staircase of 1.21 mtr. width (Holding House).	
	▪ 02 CGI sheet roofed double-storeyed buildings with iron truss having slab over ground floor and false ceiling of bison over first floor. Both the	

	<p>buildings have single staircase of 1.37 mtr. width each (Residential quarter Block A&B).</p> <p>▪ 02 CGI sheet roofed double-storeyed buildings with iron truss having slab over ground floor and false ceiling of bison over first floor. Each building have single staircase of 0.91 mtr. width each (Residential quarter Block C, D & E).</p>	
awahar Novovdya Vidyalya, Aishmuqam	<p>▪ CGI sheet roofed double-storeyed building with iron truss having slab over ground floor and false ceiling of bison over first floor. The building has single staircase of 0.99 mtr. width (Residential quarter Block F).</p> <p>▪ CGI sheet roofed single storeyed building (Assembly Hall)</p> <p>▪ CGI sheet roofed single storeyed building (Store/Stationary room)</p> <p>▪ CGI sheet roofed single storeyed building having bison ceiling (Principal's residential quarter).</p> <p>▪ CGI sheet roofed single storeyed building having bison ceiling (Guest Room).</p> <p>▪ CGI sheet roofed single storeyed building (Mess Cum Dining Hall).</p> <p>▪ CGI sheet /wooden made structure.</p> <p>▪ 02 CGI sheet/wooden made sheds.</p>	No firefighting equipments are installed.

A. Fire Preventive/protective and other precautionary measures.

- The main entrance to the plot shall be of adequate width to allow easy access to the fire engine and in no case shall it measure less than 6 m.
- The buildings shall be of Type I construction having external shell and load bearing elements of 4 h fire resistance rating, while internal/ non-load bearing walls shall have 2 h fire resistance rating.
- The internal wooden compartments of all the structures shall be given fire retardant treatment of at least 2 hours of rating. The wooden truss (if any) based attic/roof/ floor shall not be continuous over a large length, it shall be compartmented and must be given fire retardant treatment of at least 2 hours of rating.
- Occupant load shall be limited to 4 m² per person in academic/administrative block.

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- Two 9 litre water expelling extinguishers or ABC 5 kg / 6 kg fire extinguisher, for every 200 m² of floor area with minimum 4 extinguishers per floor. The extinguishers should be so located as to be available within 15 m radius.
- One 4.5 kg capacity carbon dioxide or one 3 kg capacity clean agent extinguisher for every 100 m² of floor area with minimum two extinguishers so located so as to be available within 10 m radius. 03 Foam type fire extinguishers of 9 litres capacity shall be installed near the gen-set.
- Hose Reel Hose shall be installed in each floor of all the buildings. The Hose Reel Hose shall be provided with pressurized water from 20,000 liters capacity terrace tanks exclusively for firefighting each in all the buildings through booster pumps or from the underground water reservoir through suitable fire pump/s as per the relevant standards/code in vogue. Their shall be two lengths of Hose Reel Hose where the built up area exceeds 100 ft or more The Hose reel shall be connected with Terrace Pump at the terrace tank level shall be provided with minimum pressure of 3.5 kg/cm² and discharge of 450 litre/min.
- single headed Yard Hydrants after every 45 meters each shall be installed in the premises of the school connected with a permanent water source through a suitable fire pump for atleast two hours of firefighting at requisite pressure. At each Hydrant point there shall be hose cabinet, and shall contain 30 meters of fire hose and nozzle/branch as per the relevant standard.
- One underground static water storage tank of min. 200000 liters capacity is recommended in the premises. This shall be provided with manholes for insertion of suction hose so that water from it can be used for firefighting purposes. The yard hydrants and Hose Reels can be connected to this storage tank through suitable instant auto start pumps.
- Automatic and Manual Fire Detection and alarm system shall be provided in the Hostel Block.
- Every room/hall with a capacity of 45 persons or more shall have at least two doorways of minimum 2 meter width. Arrangement of Passageways, aisles (cross as well as longitudinal) and also the construction of stage and associated structures of assembly places shall be as per national building code/standard.
- Arrangement of Exits, doorways, corridor and passageways shall be per the relevant standard/code in practice/vogue for safe escape in case of emergency.
- No exit doorway shall be less than 1 m in width and less than 2 m in height.
- There shall be minimum two staircases and the requisites like type of construction, dimensions of elements of staircase and other necessary requirements shall be strictly as per the relevant standard/code in practice/vogue for safe escape in case of emergency.

No gas piping or electric panels shall be allowed in the stairway. Ducting in the stairway may be permitted, if it is of 1 h fire resistance rating.

No combustible materials shall be used for decoration/wall paneling in the staircase.

No electric shaft/AC ducts or gas pipe etc. shall pass through the staircases.

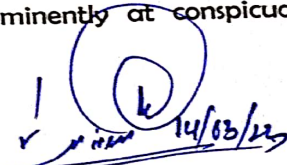
The exit signs with arrow indicating the way to the escape route shall be provided at a suitable height from the floor level on the wall and shall be illuminated by electric light connected to the corridor circuits.

All landings of floor shall have floor indicating boards prominently indicating the number of floor. The Floor indicating boards shall be placed on the wall immediately facing the flight of stairs and nearest to the landing. It shall be of the size not less than

per requirements of NBC part 31. On the Emergency/Evacuation plan shall have to be prepared and update at regular intervals.

- All the escape routes shall be kept free from any obstruction to provide smooth free evacuation in case of emergency. Routes of exits and doors shall be kept unlocked during the time when occupants are present in the building.
- The vertical shaft/ducts meant for electrical wiring, drainage pipes, etc. shall be effectively sealed at all floor levels and shall be enclosed by 2 h fire resistance enclosures. Whenever, inspection doors are required, these shall be of not less than 1 h fire resistance.
- All electrical equipments including cables should be in conformity with relevant standards. Staircases and corridor lighting shall have separate circuits. Minimum circuit breakers/earth leakage circuit breakers shall be provided in the circuit.
- The laboratories likely to have highly flammable materials/chemicals should be located in separate blocks and adequate precautions should be taken to have separate store for keeping hazardous chemicals.
- Good housekeeping in all areas, specially stores, kitchen, electrical installation, transformer house and waste disposal etc. should be maintained.
- All electrical installations shall be periodically checked and tested by competent electrical engineers, while all loose electrical wiring if any shall be replaced immediately. Appropriate MCBs shall be installed where necessary in the electrical installations as per Indian Electrical standards. Electrical safety Audit should be carried out at regular interval as per Indian Electrical Rules.
- The adequate care shall be taken while using any gas for burners, etc. in laboratory/kitchens and necessary precaution shall be taken for storage of gas in form of bullet, tanks, battery or cylinders, etc as per rules.
- Highly inflammable, explosive and other hazardous material shall neither be stored inside nor in the vicinity of the school building.
- Emergency lighting shall be provided to be put on within 5 seconds (Preferably within 1 second) of the failure of the normal lighting supply and shall be powered from a source independent of that supplying normal lighting. The Emergency lighting system shall be capable of continuous operation for a minimum duration of 90 min. The horizontal luminance at floor level on the centre line of an escape route shall be not less than 10 lux.
- Fire drills shall be conducted, in accordance with the fire safety plan, at least once every three months for buildings during the first two years. Thereafter, fire drills shall be conducted at least once every six months.
- The staff of the School should be trained to handle and operate the first aid firefighting equipments.
- The Car Parking must not be allowed within five meters to the nearest wall of the buildings.
- The whole area around the institution, around the DG sets and the around the electric transformers of the office complexes should always be kept free of vegetation.
- Public Address System (PA system) with two way communication system shall be installed.
- Trained staff for dealing with the firefighting extinguisher/appliance and evacuation procedure shall be engaged. Firefighting drill and evacuation drill should be held on regular basis.

- Arrangement should be made for proper checking, testing and maintenance of all Fire protection and detection systems to keep them in proper working condition at all the time.
- One senior person preferably from administration may co-ordinate and look- after the installed First Aid appliances.
- No Smoking Zone (while applicable in Office, Store, depot etc) shall be enforced strictly.
- Safe Assembly point shall be earmarked in the premises of the institution.
- The Iron grill (if fixed) from atleast one window of each room in the ground floor needs to be removed so that it can be used as an additional means of escape during an emergency.
- The telephone numbers of Fire & Emergency Service Control Room Anantnag i.e. 101, 01932-222822 and 01932-227531 should be displayed prominently at conspicuous places in all the buildings of the buildings.


Deputy Director,
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