



Administration of Daman & Diu (U.T.),  
Deptt. Of Fire & Emergency services,  
Fire Force Headquarters, Somnath,  
Daman - 396 215.  
Email : sfo-dmn-dd@nic.in

No. DFES/DMN/CP-School/251 ADFO/2017

Dated: 27/03/2016.

To,

M/s. Society of Pilar Nagar Haveli,  
Magarwada, Moti Daman,  
Daman - 396 220.

Sub: Grant of provisional construction permission of the School building - reg.  
Ref: Your application dated 18-02-2017.

Sir,

This has reference to your application under reference above, this office is issuing "Provisional No-Objection Certificate" for construction permission of the School Building - B and Hostel building C & D having following details of respective buildings on land bearing survey No. 153, 155/4, 5, 162/1to4, 163/1 to 3, 164/1 to 8, 165/1, 2, 3 & 167/2 situated at village Magarwada, Moti Daman.

The Existing approved and proposed School buildings plan, the details of the construction/ building and plot area are shown in the plan of the school building as submitted by the applicant is as under:

Sr. No.	Particulars of Construction	Total B/U area (Sq.M.)				
		Existing	Proposed			Total
01.	Total Plot area					29311.00
	Permissible Ground coverage @ 40 %					11724.40
	Proposed ground coverage @ 15.76%					4620.24
	Permissible FAR/FSI @ 1.15					33707.65
	Consumed FSI @ 0.52					17559.302
02.	Built up area for FSI	Existing	Proposed			Total
		BLDG A	BLDG B	BLDG C	BLDG D	
	Ground floor	518.910	3278.709	331.20	491.43	4289.05
	First floor	518.910	3176.488	331.20	491.43	4518.028
	Second floor	518.910	3343.283	331.20	491.43	4684.823
	Third floor	518.910	2725.876	331.20	491.43	4067.416
	Total proposed built up area	2075.64	12524.36	993.60	1965.72	17559.302
03.	Total height of the building	13.50	14.90	12.30	14.60	--
04.	Number & width of staircase	01/1.5	04/2.5	1/1.57	1/1.57	--
05.	No. & width of fire escape	01/1.5	1/2.0	1/1.57	1/1.57	--

The site abuts have single internal road about 6 meters wide on north side, as shown on the proposed plan. Open space around the building from plot boundary is as shown below:

- South Side - 09.00 Meters from building line
- North Side - 09.00 Meters from building line + 6 meters wide road.
- East Side - 09.00 Meters from building line
- West Side - 09.00 Meters from building line

In view of the above, so far as department is concerned, there would be no objection from the fire safety point of view for grant of "**Provisional No-Objection Certificate**" for construction permission of the proposed School Building – B and Hostel building C & D and comply the fire safety measures in existing school building – A with above details of each buildings on land bearing survey No. 153, 155/4, 5, 162/1to4, 163/1 to 3, 164/1 to 8, 165/1, 2, 3 & 167/2 situated at village Magarwada, Moti Daman subject to satisfactory compliance with the fire fighting requirements of the National Building Code of India and as required under the Notification No.DFS/DD/F.P.-Notification/2004-05/627 dated 12-01-2005 issued under sub-section (1) of section 13 of the Goa, Daman and Diu Fire Force Act, 1986.

1. **ACCESS:**
  - (i) The premises should be located as to provide easy access to fire brigade in the building.
  - (ii) Adequate passageway and clearance required for fire fighting vehicle to enter the premises should be provided at the main entrance. The width of such entrance shall not be less than **4.5 meters**. If an arch or covered gate is constructed, it shall have clear headroom of not less than **5 meters**.
  - (iii) Whether the two nos. of entrance gate of not less than 5 meters width shall be provided to the premises.
2. **COURTYARDS/OPEN SPACES/SET BACK:**
  - (i) The open spaces around the building shall be not less than **06 meters** and shall be hard surface so as to take load of the fire engine weighing up to 45 tones.
  - (ii) The courtyard as above all around the building shall be free from obstruction and encroachment for fire brigade access at all times.
3. **OCCUPANT LOAD:**
  - (i) The permissible occupant load of the educational building should be as laid down.
4. **DOORWAYS:**
  - (i) The every room with a capacity of **45 persons** in area should be provided at least **two doorways**.
  - (iii) The width of all exit door ways should be **01 meter and above** in respect of class rooms and **02 meters and above** in respect of Assembly halls.
  - (iv) The height of exit door ways should be 02-00 meters and more and should be opening outwardly.
  - (ix) **CORRIDOORS AND PASSAGEWAYS:** All means of exit including staircase lifts lobbies and corridors shall be adequately ventilated.
5. **STAIRCASE:**
  - (i) The minimum 02 staircase of not less than **1.5 meters** width shall be provided on each floor of the building.
  - (iii) The staircase should be provided for every 22.5 meters of travel distance.
  - (iv) The all means of exit including staircases, lifts lobbies and corridors shall be adequately ventilated.
  - (v) No staircase should be arranged around a lift shaft.
  - (vi) No Gas pipes should be laid in the stair way.
6. **RSTRICTION OF SPREAD OF FIRE AND SMOKE:**
  - (i) The laboratories should be located in separate blocks/adequate precautions taken.
  - (ii) The hazardous chemicals should be stored separately with due precautions.
  - (iii) The reactive and hazardous nature chemicals should be stored separately in appropriate receptacles (closed) properly labeled their names and chemical characteristic.
  - (iv) The adequate care shall be taken while using any gas for burners etc.,

- in laboratory/kitchens.
- (v) Storage of volatile flammable liquids shall be prohibited and the handling of such liquids shall be restricted to science laboratories only.
- 8. RAMPS:**
- (i) The slop of a ramp shall not exceed 1 in 10. In certain cases steeper slopes may be permitted but in no case greater than 1 in 8.
- 9. EMERGENCY AND ESCAPE LIGHTING:-**
- (i) The emergency lighting should be powered from a source independent of that supplying normal lighting.
- (ii) The emergency lighting system should be adequate capacity of continuous operation of minimum duration of 1 ½ hour even for smallest premises.
- (iii) All escape exits routes shall be provided clearly visible & illuminated sign in the premises.
- (iv) The exit signs with arrows indicating the escape routes shall be provided at a height of 1.5 m. from the floor level on the wall and shall painted with fluorescent paint.
- (v) All exits signs should be flush with the wall and so designated that no mechanical damage to them can result from the removing furniture, material or other equipments.
- 10. D.G. SET:**
- (i) A stand - by D.G. set with appropriate change over switch shall be provided to supply power to staircase and common corridor lighting circuit, fire lift, the stand-by fire pump, pressurization fans and blowers, smoke extraction and damper systems in case of failure of normal electric supply. The generator shall be capable of taking starting current of all the machines and circuits stated above simultaneously.
- (ii) Generator set is uses in the school premises apart from necessary precautions to take care of noise or air pollution, it should be ensured that this generator set is located either on a separate floor or in a separate part of the building with direct access from outside.
- 11. LIGHTNING PROTECTION OF BUILDING**
- (i) The lightning protection for buildings shall be provided as given in part 8 Building Services, Section 2 Electrical Installation.
- 12. PA SYSTEM**
- (i) A communication system (suitable public address system) shall be provided to all floors of the school to announce safety instruction to teachers, students, staffs, etc. and must be connected to the battery backup supply to be always in working conditions.
- 13. FIRE FIGHTING REQUIREMENT:**
- The following requirements of fire fighting installation should be provided as given below as per table 23, part 4, NBC of India, 2005.
- (A) FOR BUILDING WITH GROUND + TWO OR MORE STOREY.**
- A - PORTABLE FIRE EXTINGUISHERS:**
- (i) The first aid fire extinguishers bearing ISI mark shall be installed in the each building.
- (ii) The adequate G.I. Fire Bucket stand each of 9 Ltrs. Capacity (4 each stand) with dry sand shall be provided at appropriate place in the building.
- B - HOSE REEL:**
- (i) The first aid hose reel shall be installed on each floor in the staircase landing of the each building for fire fighting and first aid hose reel shall be connected directly to the wet riser main and dia meter of the hose reel shall be not less than 25/19 mm.
- C- DOWN COMMER:**
- (i) The down comer system connected to terrace tank through terrace fire pump and having main not less than 100 mm internal dia meter G.I. 'C' class pipe shall be provided with single landing valve on each floor/landing in the premises.



- (ii) Down comer points should be provided on each floor with hose box along with delivery hose and a standard branch pipe 19 mm dia meter.
- (iii) It may also be fitted with two-way inlet connection at ground level for charging with water by pumping from fire services appliance and air release valve at roof level to release trapped air inside.

**D - WET RISER:**

- (i) The Wet Riser system connected to a fire pump at ground level and having main not less than 100 mm internal dia meter G.I. 'C' class pipe shall be provided with single landing valve on each floor/landing in the each building.
- (ii) Landing valve of wet riser system should be provided with hose box along with delivery hose and a standard branch pipe 19 mm dia meter

**E - YARD HYDRANT:**

- (i) External fire hydrant /Ring hydrant system shall also be installed around the premises at appropriate distance and having main not less than 200/150/100 mm internal dia meter G.I. 'C' class pipe with connect to the diesel/electric centrifugal fire pump to charge hydrant system.
- (ii) Hydrant points should be provided with hose box along with delivery hose and a standard branch pipe 19/25 mm dia meter.  
A fire service inlet connection (two way collecting head with non return valve) shall be provided near at main gate of the premises for charging with water by pumping by fire services appliances.

**F - FIRE ALARM SYSTEM:**

- (i) The manually operated electric fire alarm (MOEFA) system with main control panel at ground floor level and bell-boxes and hooter at each upper floor level shall be provided at appropriate places in the each building C & D.

**G - UNDER GROUND WATER STORAGE TANK:**

- (i) A satisfactory supply of water for the purpose of fire fighting shall always be available in the form of underground static water storage tank with capacity of 1,00,000 litres.
- (ii) The static storage water supply required for above mentioned purpose should entirely accessible to the fire engines of the local fire service. Provision of suitable number of main holes shall be made available for inspection repairs insertion of suction hose etc.

**H- TERRACE WATER STORAGE TANK**

- (i) A satisfactory supply of water for the purpose of fire fighting shall always be available in the form of terrace water storage tank with capacity of 10,000 liters (01 Tank on Build A, C & D and 02 Tank Build - B) at terrace level.
- (ii) The tank shall be connected to the down comer through a booster pump through non-return valve and gate valve.

**H - FIRE PUMP:**

- (i) One electric driven (main pump) centrifugal fire pump of capacity 2280 l/min (60 HP motor & 70 m head) shall be provided near the underground static water storage tank with minimum pressure of 3 kg/cm<sup>2</sup> at terrace level each for hydrant system, wet riser and sprinkler system.
- (ii) One diesel driven (68 BHP) stand by centrifugal fire pump of capacity 2280 l/min.
- (iii) One electric driven pump (jockey pump) of capacity 180 l/min (15 HP motor & 70 m Head) shall be provided near the underground static water storage tank for hydrant system and wet riser system.
- (iv) Down Comer system shall be connected to electric coupled centrifugal booster fire pump having capacity of 900 l/min (15 HP & 50m Head) shall be provided on each staircase of building A, C & D and 2 pump on each staircase of building -B at terrace tank level with minimum pressure of 2.0kg/cm<sup>2</sup>.
- (v) The pumping system should be provided auto control panel system.

**I - LIGHTNING PROTECTION OF BUILDINGS:**



to the statutory provisions amended from time to time and, in the interest of the protection of the company and employees

The applicant has paid the fire NOC fees to the tune of **Rs. 175593/-**  
**(Rupees One Lac Seventy Five Thousand Five Hundred Ninety Three Only)**  
by challan No. 128 dated 16.03.2017.

This is issued with the approval of Hon. IGP/Director of Fire & Emergency Services, Daman & Diu, Daman vide diary No. 185799 dated 16-03-2017.

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Yours faithfully,

6 27/3/17  
Assistant Director,  
Fire & Emergency Services,  
Daman.

Copy to:-

o/c gwy

1. PA to Hon. IGP/Director of Fire & Emergency Services, Daman & Diu, Daman.
2. The Associate Town Planner, Daman... for necessary action accordingly and OC shall issue only after the **Final NOC** of the Fire Department.
3. Office copy.

F. 27/3/17