

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/NOC-Recc/146 /ADFO/2017/

Dated: 13 /02/2017.

To,

M/s. Imperial Industries,
Plot no. 47 & 49, Goa-DIC,
Daman Industrial Estate,
Somnath, Nani Daman.

Sub: Request to issue N.O.C. of the factory building – reg.

Ref: 1. Your application dated 12-01-2017.

Sir,

This has reference to your application under reference above, it is to inform that you have applied for review of fire NOC of the factory building having Ground floor + Mezzanine floor + 1st upper floor with total height of the building **11.81 meters** from the general ground level up to the roof on land bearing plot no. 47 & 49, Goa-DIC, situated at Daman Industrial Estate, Somnath, Nani Daman 396 210.

As per plan of the said factory building is approved by the competent authority as submitted by the applicant. The details of construction and plot area are shown in the approved plan of the factory buildings are as under:

Sr. No.	Particulars of Construction	Total B/U area (Sq. M.)
01.	Total Plot area	2100.00
	Permissible Ground Coverage @ 50%	1050.00
	Consumed ground coverage area @ 49.85 %	1046.90
	Permissible F.S.I. @ 1	2100.00
	Consumed F.S.I./FAR @ 0.997	2094.57
02.	Built up area of the building	
	Ground floor	1046.90
	Mezzanine floor	164.71
	First floor	882.96
	Total proposed built up area	2094.57
03.	Total height of the each building in meters.	11.81
04.	No. of Staircase & width	02/1.40

The site abuts have single main road about 15 meters wide on west side and 15 meters internal road wide on north side of the factory building as shown on the plans of the building. Open space around the main factory building from plot boundary is as shown below:

South Side - 04.00 Mtrs.
North Side - 09.95 Mtrs. + 15 mtrs. wide road.
East Side - 06.70 Mtrs.
West Side - 05.22 Mtrs. + 15 mtrs. wide road.

During the scrutiny of the proposed plan of the said factory building, the observation and findings are as under:-

Sr. No.	Observation & findings	Remarks.
01.	Open Space around the building	As per clause 8.3.1 e) part III of NBC – 2005, the open spaces for around the industrial building shall be not less than 4.5 m whereas 4.00 m is shown on south side of the proposed plan. Planning department my please take view of the above deficiency.

Further, it has been observed that you have not obtained any kind of permission/NOC from the fire department while construction stage or establishment of factory building. At present, the above industrial unit is under functioning about 2006 by M/s. Imperial Industries. Therefore, the department is unable to issue the provisional N.O.C. of the said factory building in this stage

It is also observed that the leasehold right of plot No.47 & 49 up to 17/03/2015. However, you have to submit the valid renewal deed of lease execute with Goa IDC before apply of final fire NOC.

You are requested that the following basic fire fighting requirements may kindly be complied in your above said factory building having Ground floor + Mezzanine floor + 1st upper floor with total height of the building **11.81 meters** from the general ground level up to the roof on land bearing plot no. 47 & 49, Goa-DIC, situated at Daman Industrial Estate, Somnath, Nani Daman 396 210 as per guideline of 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.
- (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.

2. COURTYARDS/OPEN SPACES:

- (i) The open spaces around the building shall be not less than 4.5 meters and shall be hard surface so as to take load of the fire engine weighing up to 45 tons.
- (ii) Courtyard as above all around the building shall be free from obstruction and encroachment for fire brigade access at all times.

3. STAIRCASE:

- (i) The staircase shall be terminated at ground floor level and divert to the basement if any.
- (ii) The sufficient staircase of not less than 1.5 meters width shall be provided on each floor of the building.
- (iii) No gas piping or electrical panels shall be allowed in the stairway.
- (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 any other equipments.

5. ESCAPE ROUTE LIGHTING:

- (i) Escape route i.e. staircase and common corridor, lift, etc. lighting shall be on independent/separate circuits and shall be independently connected so as it could be operated by one switch installation on the ground floor easily accessible to fire staff at any time irrespective of the position of the individual control of the light points, if any.

6. 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.

7. FIRE FIGHTING REQUIREMENT:

A. PORTABLE FIRE EXTINGUISHERS:

- (i) First aid fire extinguishers bearing ISI mark shall be installed in the buildings as per the scale laid down in IS 2190:1992.

B. HOSE REEL:

- (i) The first aid hose reel shall be installed on each floor in the staircase landing of the 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. 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 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.

D. 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.
- (iii) 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.

E. AUTOMATIC SPRINKLER SYSTEM

- (i) The automatic sprinkler system should be provided on each floor of the factory building.

F. FIRE ALARM SYSTEM:

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

G. AUTOMATIC DETECTION & ALARM SYSTEM.

- (ii) Automatic detection and alarm system shall be provided on each floor of the factory building.

H. 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 100,000 liters.
- (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.

I. 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/cm² at terrace level 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) The pumping system should be provided auto control panel system.

J. FIRE CONTROL ROOM:

- (i) A Fire Control Room shall be provided on the entrance floor of the building with communication system (suitable public address system) to all floors to announce safety instruction to employees.

K. LIGHTNING PROTECTION OF BUILDINGS:

- (i) The lightning protection for building shall be provided in the premise.

8. GENERAL REQUIREMENT:

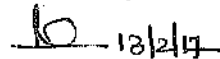
- (i) Any compartmentation in addition to the proposed plan/existing structure shall be made only with the prior approval of the fire department.
- (ii) The storage, use and handling gasoline, fuel oil and other flammable liquid/gas shall not be permitted in any Group G occupancy unless it complies with the regulations.

- (iii) The sufficient Fire Bucket stand each of 9 Ltrs. Capacity (4 each stand) with dry sand shall be provided at appropriate place in the building.
- (iv) "NO SMOKING" "Fire Extinguisher" "Fire Bucket" and "DANGER" caution boards should be displayed at the appropriate places physically shown where ever required & the caution boards should be easily visible.
- (v) Emergency telephone numbers like "Police-100", "Fire Brigade-101", "Hospital", "Doctors", "Responsible Persons" and 104 & 108 of the company should be displayed in security cabin.
- (vi) Emergency/Fire Evacuation floor plan shall be displayed on each floor at appropriate place in the Hotel building.
- (vii) Floor number and signs with exit/arrows indicating the escape routes, staircase shall be provided on each floor at appropriate place in the building.
- (viii) All signs with arrows indicating the escape routes shall be provided at appropriate place in the building.
- (ix) Fire safety/Emergency evacuation plan of the Hotel building shall be prepared and conduct mock drill periodically.
- (x) It shall be ensured that security staff and every employee of the company are trained in handling fire fighting equipments & fire fighting.
- (xi) The eliminate fire hazards good housekeeping both inside and outside the building shall be strictly maintained by the occupants or the owner of the building.
- (xii) The applicant shall inform the fire department for inspection of premises after compliance to all above recommendation of the department.
- (xiii) The competent authority reserves right to amend any additional recommendations deemed fit during final inspection or in future due 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. 20946/- (Rupees Twenty Thousand Nine Hundred Forty Six Only) by challan No. 117 dated 03.02.2017.

It is also inform you that the satisfactory compliance report with the aforesaid requirements will be submitted within 06 months for further necessary action.

Yours faithfully,

 13/2/17

Assistant Director,
Fire & Emergency Services,
Daman.

Encl: Original file with relevant documents.

Copy to: -

1. PA to I/C. JGP/Director of Fire & Emergency Services, Daman & Diu, Daman.
2. The Associate Town Planner, Daman.
3. The General Manager, DIC, Daman.
4. Office copy.