

# FIRE SAFETY INSPECTION REPORT

## BARIDHI GARMENTS LIMITED

ACCORD ID: 12507

SFB#7, Comilla EPZ, Comilla-3500. Comilla (23.444009,91.183041)

Other Factories: None



Inspected By: Shabbir Hossain, Pantha Pallob Das

Date: 20 June, 2016

## Fire Safety Inspection Report

Factory Name: Baridhi Garments Limited

### Summary

Baridhi Garments Limited complex was surveyed for fire safety on 20 June, 2016 by The Accord Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections. Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.



## Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

**Table:1**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction. [Ground floor (east block): Fabric warehouse not separated from inspection area and passageway, Ground floor (west block): Finished goods warehouse not separated from packing section and passageway]	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction from inspection room, packing section and minimum 2-hr fire rated construction from exit passageway. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m <sup>2</sup> (250 ft <sup>2</sup> ) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m <sup>2</sup> (305ft <sup>2</sup> ) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months



				
F-2	Fire Rated Construction	Unsealed penetrations and openings are located in utility building towards main production building.	Provide minimum 1.5 -hr rated opening protective assemblies in any one side of the noted buildings.	Within 3 months
				



F-3	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p><b>Location:</b> Electrical riser each block of main building.</p>	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating or separate the entire room by 2 hr fire rated construction with 1.5 hr fire rated door.</p>	Within 3 months
-----	-------------------------	--	---	-----------------



F-4	Fire Rated Construction	<p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Exit doors are not credibly fire rated, un-protected openings within 10 ft of horizontal distance available for all stairs, the west side stair is not separated with office area on ground floor)</p>	<p>Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets.</p>	Within 3 months
-----	-------------------------	---	--	-----------------

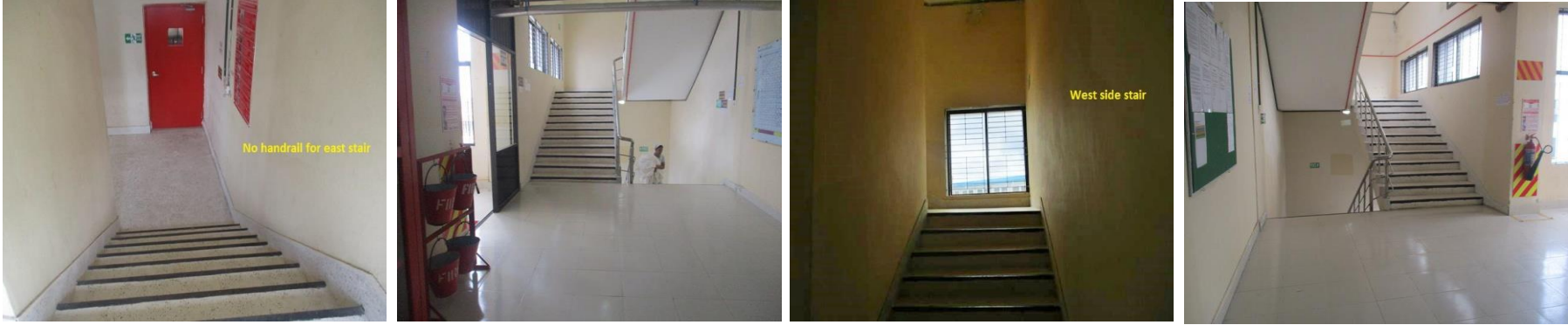


F-5	Fire Rated Construction	Boiler, Generator, Substation, Compressor, LT Panel and Fire Pump room is not properly fire separated from each other by fire rated construction (Utility Building).	Separate the generator, boiler, compressor, substation, LT panel and fire pump rooms by a minimum 2-hr fire-rated construction from each other. Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer.	Within 3 months
-----	-------------------------	--	--	-----------------



F-6	Egress	Storage was located in the exit stairwell and aisles. (IT Room inside middle stair on ground floor and office area inside same stair for all other remaining floor. Aisles blocked on west block's 4th and 5th floor, in front of female toilet).	Remove all storage from exit stairs and egress paths.	Immediate
-----	--------	---	---	-----------



F-7	Egress	Handrails are not provided on any side of east and west stair and both side for middle two stairs	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)	Within 3 months
				
F-8	Egress	Floor level, stair designation, occupant load signage and emergency egress map are not posted properly.	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in both English and Bengali language. Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space. Post emergency egress maps/fire evacuation maps at each main point of egress or exit doors.	Within 1 month



F-9	Fire Protection	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months
-----	-----------------	--	--	---



F-10	Fire Protection	Inspection, testing, and maintenance of the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
------	-----------------	--	---	-----------------



F-11	Fire Protection	The required standpipe system is not installed in accordance with the ACCORD standard. (Proper design is not available, only class-I hose system available which is installed inside of floor.	Install a new standpipe system or modify the existing one in accordance with ACCORD standard 5.4 and NFPA 14. A class III system shall be installed in buildings with the highest occupiable floor 10 m (33 ft.) above grade or more.	Design within 4 months, install within 9 months
				
F-12	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 3 months



F-13	Fire Protection	Fire pump is not installed as per NFPA-20, moreover the pump is not listed.	Fire pump shall be listed and installation shall be as per NFPA-20.	Design within 4 months, install within 9 months
------	-----------------	---	---	---



F-14	Fire Protection	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 3 months
------	-----------------	---	---	-----------------





F-15

Egress Lighting

Based on the number and location of emergency lights observed mostly adequate for all floors but not provided inside warehouse on ground floor.

Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.

Within 3 months



F-16	Egress Lighting	Exit signage available at all exits but directional signage not provide as required to get the proper guidance during emergency.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
------	-----------------	--	---	----------------



F-17	Egress Lighting	Manual on-off switch facility available for emergency lights those are installed at top of exit doors.	Remove manual on/off switches from emergency lighting units to prevent them from being switched off.	Within 1 month
------	-----------------	--	--	----------------



