

FIRE SAFETY INSPECTION REPORT

Dhaka Garments & Washing Ltd.

ACCORD ID: 23920

Dakkhin Vangnahati, Sreepur, Gazipur

24.192383, 90.457338

Other Factories: None



Inspected By: Mohammad Anayet Hossain & Md. Zahidul Islam

Date: 30 December, 2019.

Fire Safety Inspection Report

Factory Name: Dhaka Garments & Washing Ltd.

Introduction:

Dhaka Garments & Washing Ltd. complex was surveyed for fire safety on **30/12/2019** 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.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The Accord cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.



Dhaka Garments and Washing Ltd.(AID-23920)

Findings & Recommendations :

Table-01:

Table 1 summarizes the major fire safety issues identified during the inspection of main building. 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.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. - or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	within 3 months





F-02	Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction at Main Building, UGWR Building and Utility Building.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 ACCORD standard 6.8.3.1 If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.	Within 3 months
------	-------------------------	---	---	-----------------



F-03	Fire Rated Construction	Elevator is open into an exit stair enclosure.	Openings into an exit enclosure other than unprotected exterior walls shall be limited to those necessary for exit access to the enclosure. In new construction, elevators shall not open into an exit enclosure. Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules according to ACCORD standard 6.14.3.		Within 3 months





F-04	Fire Rated Construction	Dining room is not separated by 2-hr fire rated separation from storage areas at 1st floor of UGWR building (office).	Separate the dining room by a minimum 2-hr fire-rated construction having direct access to exit stair. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
------	-------------------------	---	--	-----------------



F-05	Fire Rated Construction	The exit discharge path is less than 10 ft wide and is not separated from the building interior of chemical shed.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	within 3 months
				
F-06	Fire Rated Construction	Storage room discharges directly into exit stair enclosures.	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 2-hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	within 3 months





F-07	Fire Rated Construction	Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings. Location: Ground Floor	Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area. ** As per BNBC, chemical storage room shall be Type-1 construction.	within 3 months
------	-------------------------	---	---	-----------------





F-08	Fire Rated Construction	South-east exit stair is discharge the occupants inside the building.	1. Modify stair to discharge directly outside. Or 2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or 3. Provide sprinkler protection for discharge floor in accordance with NFPA 13.	within 3 months
------	-------------------------	---	---	-----------------



F-09	Fire Rated Construction	Penetrations through floor/ceiling assemblies are not properly sealed. Location: Electrical riser, PVC pipe penetrations, Installation of lift which connected from ground floor to 1st floor.	Seal all penetrations and openings in floor/ceiling (full/required thickness of the floor/ceiling) assemblies by listed fire rated materials to maintain the fire resistance rating of 2-hr.	Within 3 months
				
F-10	Egress	Exit capacity is not adequate for the occupant load. [1. Main building 3rd floor, available capacity 875 and occupant load 1037 2. UGWR Building 1st floor, available capacity 289 and occupant load 300]	1. Reduce occupant load to not more than available exit capacity. Or 2. Provide additional exits to increase exit capacity.	Immediately
F-11	Egress	Re-entry is not available for six storied building.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry as per ACCORD standard 6.8.3	Within 1 month



F-12	Egress	No smoking sign is not observed in the factory building.	Factory shall provide no-smoking sign at all required places. Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules (1.6.3.7) Part 53 requires that smoking be prohibited. Signs shall be posted in Bengali and English at all building entrances. If an Owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs required in 13.5.2.	Within 1 month
F-13	Egress	Aisles are not provided. Location: 4th floor(Main building)	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Immediately
F-14	Egress	Width of exit stair is less than 1.5m (60 inches). Location: UGWR building(office building).	Modify the stair to have a minimum width of 1.5 m (60 inches) as per ACCORD standard 6.5.6.2.1	Within 3 months

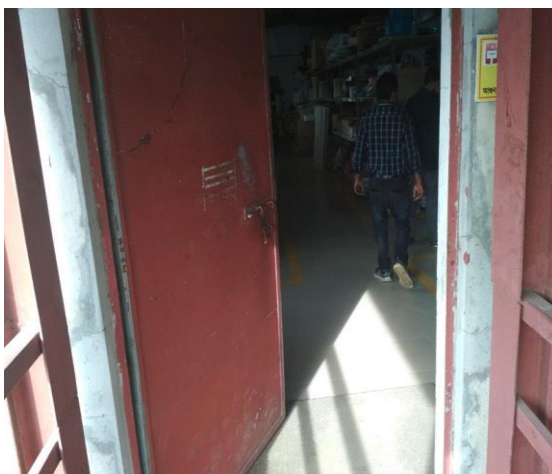




F-15	Egress	Collapsible/sliding/shutter type doors have provided along means of egress [building exits, exit stairs, along egress routes, exit discharge].	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
------	--------	--	---	----------------



F-16	Egress	Doors along means of egress are provided with non compliant locking system at store room and UGWR building.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately
------	--------	---	---	-------------



F-17	Egress	Building did not have stair designation signs and occupant load signs at required locations.	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.	Within 1 month
------	--------	--	--	----------------



F-18	Fire Detection & Alarm System	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review. Modification if required shall be as per review comments based on relevant standard NFPA 72 .	Design submission within 2 month and modification/additional installation within 3 months after drawing review.
------	-------------------------------	--	---	---



F-19	Inspection, Testing, and Maintenance of the Fire Detection & Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with table 14.3.1 of NFPA 72.	Within 3 month
F-20	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system. Reviewed design was not found during follow-up inspection	Submit the as-built design of fire fighting system to Accord in accordance with NFPA 14, 20 and 24 & installation should be as per the reviewed design	Design submission within 2 month and modification/additional installation within 3 months after drawing review.
F-21	Inspection, testing, and maintenance of the standpipe system	Inspection, testing, and maintenance of the standpipe system is not in accordance with NFPA 14 or as per Accord standard.	Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 3 month



F-22	Emergency Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3 month
				
F-23	Emergency Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month





F-24	Emergency Egress Lighting	Exit sign and exit directional sign are not provided at several exits of the building.	Lighted exit signs and exit directional sign shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs and exit directional sign shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 3 month
------	---------------------------	--	---	----------------



F-25	Inspection, testing, and maintenance of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month
F-26	Fire Extinguishers ITM	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 and ACCORD standards.	Within 3 months
F-27	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 3 months

