

FIRE SAFETY INSPECTION REPORT

FAR EAST KNITTING & DYEING IND. LTD. (Building-3 & 4)

ACCORD ID: 22919

Chandora, Thana- Kaliakoir, Gazipur, Bangladesh (24.041703, 90.260520)

Other Factories: Far East Knitting & Dyeing Industries Ltd.



Inspected By: Pantha Pallob Das & Kazi Raian Mahmood

Date: 17th September, 2017

Fire Safety Inspection Report

FAR EAST KNITTING & DYEING IND. LTD. (Building-3&4)

Summary

Far East Knitting & Dyeing Ind. Ltd. (Building-3 & 4) was surveyed for fire safety on 17th September, 2017 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 and 2 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.

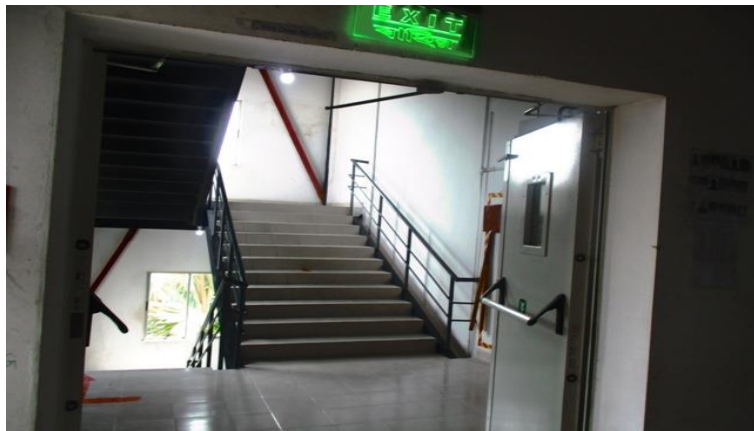
Table-1: Building-3

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.	The building shall be type-I or II construction. So, provide require rating in the structural element of the building. Consult with a qualified fire protection engineer. BNBC 2006- Table 3.2.4	Withinn 6 months



F-2	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Fire Doors have been provided with proper hour rating. Doors are kept open and installation of magnetic hold open device to interface with Fire Alarm System is ongoing.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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.	Within 3 months
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F-3	Fire Rated Construction	Elevator Shaft is open to the production floor at all floors of the building.	Provide 2-hr FireSeparation to the elevator shaft adjacent to production floors. Or, Ensure 2-hr fire rated lift door assembly.	Within 3 months
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F-4	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Top floor.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.	Within 3 months
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F-5	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-6	Fire Detection and Alarm System	The Fire Alarm System is antiquated and not listed. Reviewed design of fire alarm system was not found during inspection	Submit the as-built design of fire alarm system to Accord in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System.	Design within 3 months and installation within 9 months
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F-7	Fire Detection & Alarm System (ITM)	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 NFPA 72 or as per Accord standard.	Within 3 month (After completion of the installation)
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F-8	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 22. Installation shall be as per the reviewed design with a listed equipment.	Design within 3 months and installation within 9 months
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F-9	Fire Protection System (ITM)	Inspection, testing & maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect , test & maintain the standpipe system & keep written records on - site , in accordance with NFPA 25.	Within 03 months (After complete installation)
F-10	Fire Protection System (ITM)	Inspection, testing & maintenance of the Fire Extinguisher is not in accordance with NFPA 10.	Inspect, test and maintain the fire extinguishers, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 03 months



Table-2: Building-4

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The main structural element of the building is constructed by steel element which is non-rated and were found in exposed condition without any fire protection.	The building shall be type-I or II construction. So, provide require rating in the structural element of the building. Consult with a qualified fire protection engineer. BNBC 2006- Table 3.2.4	Withinn 6 months



F-2	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to some unprotected openings, penetrations and non-functional fire rated doors. Fire Doors have been provided with proper hour rating. Doors are kept open and installation of magnetic hold open device to interface with Fire Alarm System is ongoing.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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.	Within 3 months
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F-3	Fire Detection and Alarm System	The Fire Alarm System is antiquated and not listed. Reviewed design of fire alarm system was not found during inspection	Submit the as-built design of fire alarm system to Accord in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System.	Design within 3 months and installation within 9 months
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F-4	Fire Detection & Alarm System (ITM)	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 NFPA 72 or as per Accord standard.	Within 3 month (After completion of the installation)
F-5	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 22. Installation shall be as per the reviewed design with a listed equipment.	Design within 3 months and installation within 9 months



F-6	Fire Protection System (ITM)	Inspection, testing & maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect , test & maintain the standpipe system & keep written records on - site , in accordance with NFPA 25.	Within 03 months (After complete installation)
F-7	Fire Protection System (ITM)	Inspection, testing & maintenance of the Fire Extinguisher is not in accordance with NFPA 10.	Inspect, test and maintain the fire extinguishers, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 03 months

