

INITIAL FIRE SAFETY INSPECTION REPORT

Deshbandhu Textile Mills Ltd.

RSC ID: 24440

ADDRESS: Jarun (South), Kashimpur, Gazipur, Bangladesh.

25.857863, 88.862890

Other Factories: None



Inspected By: Ahammad Kabir & Monsurul Akram Azim

Date: 23-June-2022

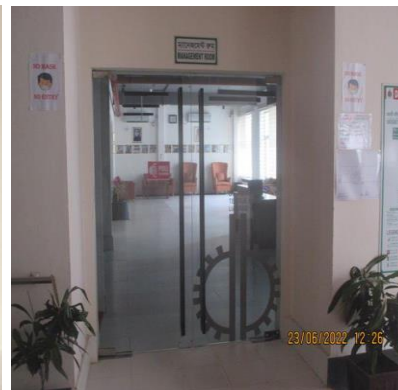
Findings & Recommendations :

Table 1 and 2- summarize the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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 RSC for approval.

Table-1:Findings & Recommendations for Building 1 - Production Building & Management office

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction.	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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



F-2	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
				

F-3	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction on the 3rd and ground floors.	Separate the storage room by a minimum 1- hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
				
F-4	Means of Egress	Building did not have stair designation signs or occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month

				
F-5	Means of Egress	The day-care room does not meet RSC standard 3.4.2.1.1.1. on first floor.	Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure. If the above is not possible provide a minimum 2-hr fire rated exit corridor between the day-care room and exit stair with RSC approval.	Within 1 month
				

F-6	Egress lighting	Several exit signs are not illuminated on different floors.	Illuminated exit signs 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. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
				
F-7	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 months

				
F-8	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months

F-9	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation was ongoing during inspection day. The Required Fire Alarm system is not installed in accordance with the RSC standard and NFPA-72.	Design & Installation of Fire Alarm system shall be in accordance with RSC standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design within 2 months, Install within 4 months.
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F-10	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per RSC standard.	Within 1 Month after installation.
F-11	Fire Protection System(Standpipe)	The Required Standpipe System is not installed in accordance with the RSC standard and NFPA-14, 20, 22 and 24.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.

F-12	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per RSC standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per RSC standard and keep written records on-site.	Within 1 Month after installation.
F-13	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 3 months
F-14	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per RSC standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per RSC standard and keep written records on-site.	Within 1 Month after installation.

Table-1: Findings & Recommendations for Building 2 - Production Building and other ancillaries.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction.	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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



F-2

Fire Rated Construction

Unsealed penetrations and openings are located in the exit stair enclosures.

Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.

Within 3 months



F-3	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction on the 3rd, 1st and ground floor.	Separate the storage room by a minimum 1- hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
				
F-4	Means of Egress	Building did not have stair designation signs or occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month

F-5	Means of Egress	Storages have been observed within the exit stair enclosures at building 1 & building 2.	Storages shall be removed from the exit stair enclosures.	Immediately
				
F-6	Egress lighting	Several exit signs are not illuminated on different floors.	Illuminated exit signs 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. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month

F-7	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes at building 2 and washing shed.	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 months
F-8	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months

F-9	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation was ongoing during inspection day. The Required Fire Alarm system is not installed in accordance with the RSC standard and NFPA-72.	Design & Installation of Fire Alarm system shall be in accordance with RSC standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design within 2 months, Install within 4 months.
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F-10	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per RSC standard.	Within 1 Month after installation.
F-11	Fire Protection System(Standpipe)	The Required Standpipe System is not installed in accordance with the RSC standard and NFPA-14, 20, 22 and 24.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.

F-12	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per RSC standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per RSC standard and keep written records on-site.	Within 1 Month after installation.
F-13	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 3 months
F-14	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per RSC standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per RSC standard and keep written records on-site.	Within 1 Month after installation.

F-15	Fire Rated Construction	The boiler, generator, transformer, EMR, gas meter, air compressor rooms are not separated by fire rated construction. Openings, penetrations exist at utility shade 1.	Specify appropriate upgrade based on conditions: -Separate the boiler room by a minimum 2-hr fire rated construction (for high rise building)/ 1-hr fire rated construction (for low rise building). Seal and/or protected all openings to maintain fire separations. -Separate the generator, transformer, EMR, gas meter, air compressor room by a minimum 2-hr fire rated construction. Seal and/or protect all by fire rated separations.	Within 3 months
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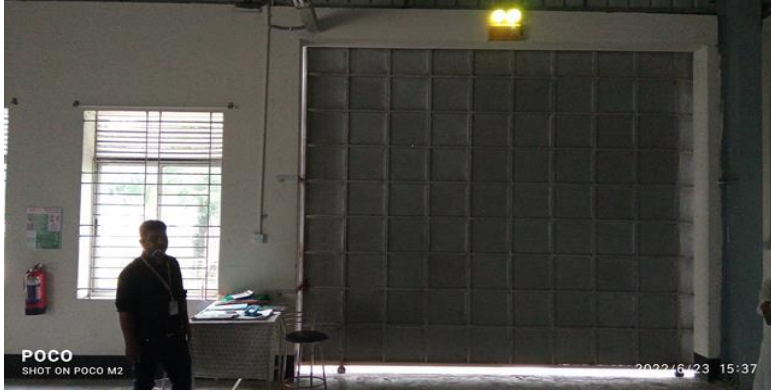


F-16	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction at washing shed	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - 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	Within 3 months
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F-17	Fire Rated Construction	The main structural elements of main building are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. As per RSC Technical Guidelines (Standard) 1.5.4 this building is defined as an interim building so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0. Location: Washing shed.	The building shall be type-I or II construction. So, provide required rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9, and 3.3.1 as reference.	Within 6 months
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F-18	Means of Egress	Sliding doors are provided at building exits along egress routes and exit discharge at washing shed.	Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.	Within 1 month
 				

F-19	Means of Egress	Width of aisled is less than 0.9m (36-in.) or not marked properly on the floors at washing shed.	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in).	Within 1 month
				