

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Graphics Textiles Ltd. (Extension)

RSC ID: 24234

Address: Sreerampur, Kalampurm Dhamrai, Dhaka

Google Coordinate: 23.955842, 90.313079

Other Factories: Graphics Textiles Ltd. (Factory ID-9192.)



Inspected By: Nirmal Chandra Sinha and Md. Anisuzzaman

Date: 18 April 2022

Fire Safety Inspection Report

Factory Name: Graphics Textiles Ltd (Extension)

Introduction:

Graphics Textiles Ltd (Extension); complex was surveyed for fire safety on **18-April-2022** by The RSC 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 RSC. 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 RSC 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.



Findings & Recommendations :

Table 1-2- summarizes 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 admin building

Sly No.	Category		Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction During inspection it was observed that the factory has installed fire doors at exit Location: Admin building.	Submit installed fire rated door documents to the RSC for review. 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. 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 RSC Technical Guidelines (standard) 6.8.3.1.	Within 3 months



F-2	Fire Rated Construction	Elevator shafts are directly open into the inside of exit enclosure. Located: Admin building.	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure.	Within 6 months
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F-3	Fire rated construction.	Exit discharge path (passageway) are not properly fire separated by fire rated construction due to unprotected openings & penetrations. Location: North side of stair of admin building.	Separate the exit passageway (ceiling, floor, wall etc.) by 2- hr. fire-resistance rated construction and shall terminate at an exit discharge.	Within 3 months
				
F-4	Fire Rated Construction	The fire pump room was not properly separated from other occupancy by fire rated construction. Location : Ground floor of admin building.	Provide fire pump room with 2 hr. rated fire separation by fire rated construction. Seal all unprotected opening & penetrations.. Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20.	Within 3 months



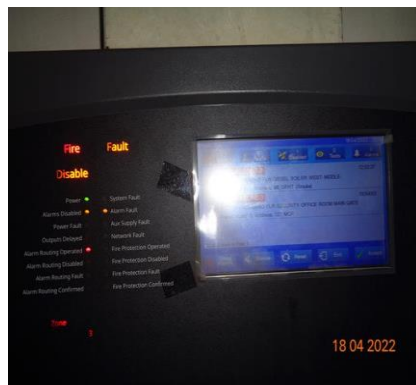
F-5	Fire Rated Construction	S-W exit stairs from third and second floor discharge directly to the first floor (Internal). Location: first floor of the admin building	Exits shall discharge directly to the exterior of the building as per RSC Technical Guidelines (Standard) 6.17.1 & 6.17.3. The exit discharge shall be at grade or provide direct access to grade. Exit discharge shall not reenter a building.	Within 3 months
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F-6	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch). Location: admin building	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
F-7	Means of Egress	Electrical panel boards (DB) are located on the inside of Exit stair enclosure. Location: all floor of admin building.	Remove electrical panel boards from exit stairs. Or Relocate the electrical panel boards to a suitable location.	Within 1 month



F-8	Means of Egress	Updated Fire evacuation maps is not posted at the entrance of all exit stair. Location: admin building	Updated Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-9	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 4 months (if required).



F-10	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 6 months (if required).
 				
F-11	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft.).	Provide automatic sprinkler protection installation throughout the building in accordance with NFPA 13 & 20	Design within 2 months and installation within 6 months



F-12	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 standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20,25 or as per Accord standard and keep written records on-site.	Within 1 Month (after installation).
F-13	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 standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14,25 or as per standard and keep written records on-site.	Within 1 Month (after installation).
F-14	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 standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per standard.	Within 1 Month (after installation).

F-15	Fire Protection System(ITM of Sprinkler)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 13,25 or as per standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 13,25 or as per standard and keep written records on-site.	Within 1 Month (after installation).
F-16	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per standard.	Within 3 months

Table-2: Findings & Recommendations for dining building

Sly No.	Category		Required Action	Remediation Time Frame
F-17	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected opening & penetration. Location: Dining building	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. 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 RSC Guideline (standard) 6.8.3.1. Openings from exit enclosures to storage areas shall be provided with vestibules.	Within 3 months



F-18	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical riser of various location of dining building.	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
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F-19	Fire Rated Construction	The factory is using/storing liquified gas cylinders without proper separations Location: East side of ground floor dining building.	The factory shall follow TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN THE FACTORY PREMISES. LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions. 1. The storage building must be at least 3 meters away from any other building and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB).	within 3months
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F-20	Means of Egress	Electrical line through the W-N side stair-2 and electrical DB located in exit enclosure Location: W-N side of stair of dining building	As per RSC Technical Guideline (Standard) 6.14.4 shift/relocate the electrical cables / BBT inside the floor or provide 2 hour fire rated wrapping which cables are passing exit stair enclosure. Relocate the electrical panel boards to a suitable location.	within 1 month
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F-21	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch). Location: Dining building.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
F-22	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations. Location: Dining building	Provide stair designation sign & exit designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
F-23	Means of Egress	Updated Fire evacuation maps is not posted at the entrance of all exit stair. Location: Dining building.	Updated Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-24	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-25	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance as per standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance as per standard. Keep written records on-site.	Within 3 months
F-26	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 4 months (if required).
F-27	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 6 months (if required).
F-28	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 standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14,25 or as per standard and keep written records on-site.	Within 1 Month (after installation).

F-29	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 standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per standard.	Within 1 Month (after installation).
F-30	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per standard.	Within 3 months