

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Life Textile Pvt. Ltd. Extension

RSC ID: 24597

**ADDRESS: 69,70,71 BSCIC Industrial Estate, Konabari, Gazipur.
24.009262, 90.322270**

Other Factories: Life Textile Pvt. Ltd -10140



Inspected By: Mohammad Atick Al Zaman and Md. Jahidul Kabir

Date: 18-September-2023

Fire Safety Inspection Report

Factory Name: Life Textile Pvt. Ltd. (Extension)

Introduction:

RSC ID: 24597

Life Textile Pvt. Ltd. (Extension) was surveyed for fire safety on 18th September 2023 by The RSC Inspection Team. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this 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. Table 1 summarizes the major fire safety issues identified during the inspection.

Recommendations have been provided to address each issue.

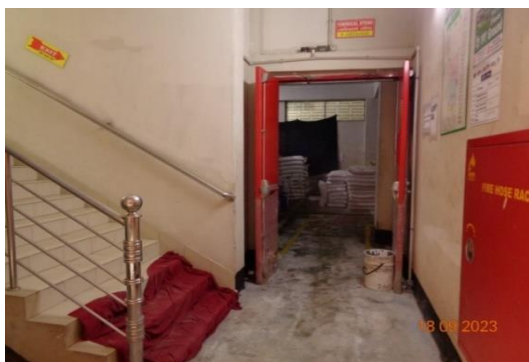
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

Findings & Recommendations :

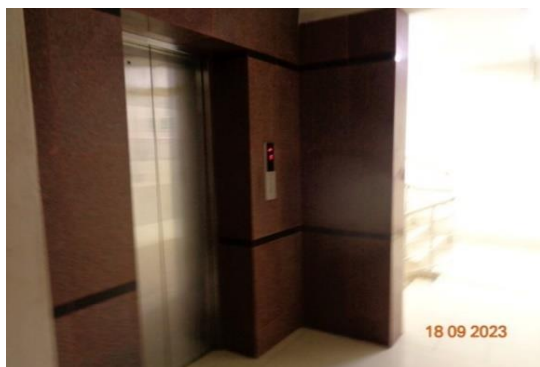
Table 1 & 2 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

Table-1: Finding & recommendations for Printing building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	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 2-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 will be Type-1 construction.	Within 3 Months



F-2	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations) Lift open to floor and elevator shaft near stair 1.	In new and interim construction, 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 as per RSC-6.14.3. So, separate the stair enclosure from elevator shaft throughout the building.	Within 3 Months
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F-3	Fire Rated Construction	Exit stairs are not properly separated from the building and stair exit discharge.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation (10" wall). Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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 6.8.3.1.	Within 3 months
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F-4	Fire-Rated Construction	Unsealed utility pipes, electric riser penetration located in the fire-rated floor/slab/ceiling assemblies	Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.	Within 3 Months
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F-5	Means of Egress	Width of aisle is less than 0.9m (36-in.) or not marked properly at 1st floor (Linking section).	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in). Rearrange the floor layout if required.	Within 3 Months
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F-6	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design Review within 2 months and installation within 4 months.
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F-7	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	Inspection, testing, and maintenance for 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. (After Installation)	Design Review within 2 months and installation within 4 months.
F-8	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design- 1 month, modification if required - 3 months.



F-9	Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and RSC standards.	Within 3 Months
F-10	Means of Egress	Building did not have occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 Month

F-11	Mean of Egress	Building did not have stair designation signs at required locations.	Provide stair 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-12	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 1 Month
F-13	Inspection Testing and Maintenance of Portable Fire Extinguisher.	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 1 Month

F-14	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-15	Smoking Sign	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 Month

Findings & Recommendations :

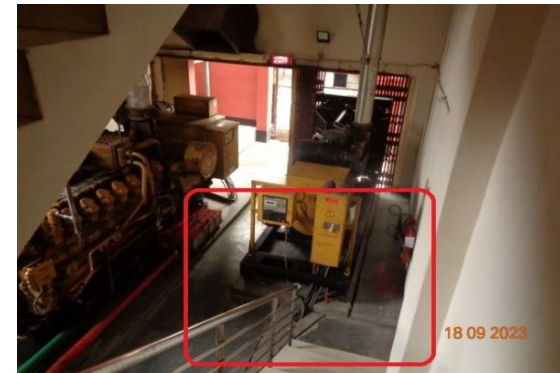
Table-2: Finding & recommendations for Knitting Building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-16	Fire Rated Construction	The shed is constructed where structural members are constructed by steel (except columns) and have been found in exposed condition without any fire protection. Location : Ground floor-dyeing area.	New constructed building shall be type-1 or type-2 construction as per Table 3.2.4 of BNBC-2006. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 3 Months
 				

F-17	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations)Lift open to floor and elevator shaft near stair 1.	In new and interim construction, 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 as per RSC-6.14.3. So, separate the stair enclosure from elevator shaft throughout the building.	Within 3 Months
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F-18	Fire Rated Construction	Exit stairs are not properly separated from the building and stair exit discharge. Location: Knitting and generator building.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation (10" wall). Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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 6.8.3.1.	Within 3 months
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F-19	Fire Rated Construction	Storage room discharges directly into exit stair enclosure. Recommendation: Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Location: 1st and 4th floor.	Provide a 1.5-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
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F-20	Fire-Rated Construction	Unsealed utility pipes, electric riser penetration located in the fire-rated floor/slab/ceiling assemblies	Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.	Within 3 Months
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F-21	Guard rail	The occupiable roof was not provided with an adequate guard rail. Location: Generator building.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 Months
F-22	Fire Alarm & Detection System (FADS)	The fire alarm and requires detailed r with NFPA	 t drawings, testing records, verification and other relevant n to the RSC for review and al/acceptance test.	Design Review within 2 months and installation within 4 months.



F-23	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	Inspection, testing, and maintenance for 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. (After Installation)	Design Review within 2 months and installation within 4 months.
F-24	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design- 1 month, modification if required - 3 months.



F-25	Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and RSC standards.	Within 3 Months
F-26	Means of Egress	Building did not have occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 Month

F-27	Mean of Egress	Building did not have stair designation signs at required locations.	Provide stair 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-28	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 1 Month
F-29	Inspection Testing and Maintenance of Portable Fire Extinguisher.	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 1 Month

F-30	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-31	Smoking Sign	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 Month