

FIRE SAFETY INSPECTION REPORT

South East Textiles (Pvt.) Ltd (Extension)

Factory ID: 24572

Gorai, Mirzapur, Tangail

24.094944, 90.166985

Other Factories in the Building: None



Inspected by: Md. Rakibul Alam & Md. Khalaquzzaman

Date: 05 March 2023



Fire Safety Inspection Summary Report

South East Textiles (Pvt.) Ltd (Extension)

Introduction

South East Textiles (Pvt.) Ltd (Extension) complex was surveyed for fire safety on 05 March 2023 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.



General Factory Information

Factory Building Name(s):

1. ETP Building
2. Store Shed
3. Workshop Shed
4. Raising Machine Shed
5. Chemical Store
6. Worker Dinning Shed – 1
7. Worker Dinning Shed – 2
8. Empty cartoon store

Findings & Recommendations

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.



Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Protection	The fire pump set installation requires detailed review to confirm compliance with NFPA 20 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Within 2 months
				
F-2	Fire Protection	The firefighting system (standpipe system) installation requires detailed review to conform compliance with NFPA 14.	Submit as built drawing, testing records, equipment certification and all relevant documents to the RSC for review, approval and acceptance test.	Within 2 months





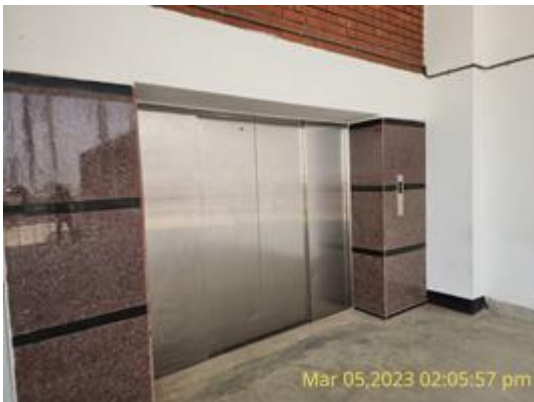
F-3	Fire Protection	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test.	Within 2 months
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F-4	Fire Protection	Inspection, testing and maintenance of the automatic fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the automatic fire alarm system and keep written records on-site, in accordance with NFPA 72.	Within 3 months
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F-5	Egress	Elevator shafts provided in the exit stair enclosures and north elevator directly open to exit stair enclosure and south elevator directly open to factory floors.	Separate the elevator by protection from factory floors 1.5-hr fire rated opening protection from factory floors and exit stairs. There is a variety of opening protective types i.e., fire rated lift landing doors, fire doors with vestibules, fire rated curtain combination for both heat & smoke control with integration with fire alarm control panel.	Within 3 months
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F-6	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. (All building/shed).	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month
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F-7	Egress	Buildings did not have stair designation sign, occupant load sign & floor level signs at all required locations.	Provide occupant load sign, stair & floor designation signs at all required locations (all sheds and building).	Within 1 month
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F-8	Egress	Exit discharge path not leveled surface from chemical store shed.	Level the exit discharge path to ensure smooth and safe evacuation and ensure that the path is slip resistant.	Within 1 month
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F-9	Egress Lighting	Exit sign not provided in electrical riser room at ETP building.	Lighted 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.	Within 3 months
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F-10	Fire Rated Construction	Exit stairs are fire separated from work areas & other spaces on each floor by fire-rated construction however fire door accessories were not functioning properly as required.	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. 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-11	Fire rated Construction	The factory sheds are steel construction which appears to be nonrated and were found in exposed condition. (Raising shed, Workshop, Empty cartoon shed, Dining 2, Dining 1, Store shed and Chemical Store shed; all are interim construction except Chemical store shed.)	In interim construction slab & beam shall be 0.5-hr rated and column 1-hr rated. No fire protection is required where unprotected slab & beam assembly demonstrates a 0.5-hour fire rating. All columns are required to be protected with 1 hour fire rating. Chemical storage shall ensure Type-1 construction.	Within 6 months
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F-12	Fire Rated Construction	Storage/ storage rooms from ETP building discharges directly into the exit stair enclosures.	Openings from exit enclosure to storage room, generator, basements, transformer boiler and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guidelines (Standard) 6.14.3. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the store room/storage 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-13	Fire Rated Construction	Chemical storage area is not separated by fire-rated construction. (At store shed).	Separate the chemical storage room by 4-hr fire rated construction. Seal protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area.	Within 3 months
			Ensure that the building/room houses chemical is Type-1 construction as per table-3.2.4; BNBC 2006	



F-14	Egress	Common path of egress travel (90ft) exceeds limit. At Store shed, chemical storeroom.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 8 m (25 ft) from the chemical store.	Within 3 months
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F-15	Egress	A single means of egress is provided from Store shed south part where the travel distance (111 ft) is exceeded the limit.	Ground or basement story is allowed a maximum of 30 occupants and 30 m (100ft) travel distance in storage. The second story is allowed a maximum of 30 occupants and 23 m (75ft) travel distance in storage. All other stories require a minimum of 2 egress exits. based on conditions: Reduce travel distance to not more than 100 ft Or Provide additional means of egress.	Within 3 months
F-16	Egress	Exit stairs do not discharge directly to the outside. (South stair and Middle stair).	Modify stair to discharge directly outside. Or Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or Provide sprinkler protection for discharge floor in accordance with NFPA 13 meeting RSC 6.17.3 (all 4 options shall meet)	Within 4 months





F-17	Egress	Electrical cable tray / channels are located in exit stair enclosure.	Penetration is prohibited into and through an exit enclosure. Re-route the cable raceway to comply RSC 6.14.4. Seal all penetrations and openings in exit stair enclosure walls to maintain the required fire separation.	Within 3 months
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F-18	Egress	Common path of egress travel (130ft) exceeds limit. 1st floor south part in ETP building.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30m (100 ft).	Within 3 months
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F-19	Egress	Fire evacuation maps is not posted at the entrance of the exits at all sheds and building also not updated.	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs and maps shall be updated regularly when required.	Within 1 month
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