

INITIAL FIRE SAFETY INSPECTION REPORT

AL-Ittefaq Textiles Limited

RSC ID: 24866

Plot: 11, Mohara CDA Industrial Area, Chandgaon, Chattogram.

GPS Coordinates: 22.397304 N, 91.865605 E

Other Factories: None.



Inspected By: Md. Hasibur Rahman Abir

Date: 26-09-2023

Fire Safety Inspection Report

Introduction:

AL-Ittefaq Textiles Limited complex was surveyed for fire safety on **26-09-2023** 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):

Within the factory premises, there are three buildings: one (1) serves as the main production building, and the other two (2) function as ancillary buildings. The buildings are as follows:

1. Main Building (Approved from CDA (Chattogram Development Authority) dated 27 May 2014. Construction started- January 2014 and ended- March 2016. Occupied- May 2016. Total Floor area: 69,255.309 sft. Per typical floor area 10674 sft. (Approximately).)
2. Sub-Station Building (Single storied RCC construction. Construction started- January 2014 and ended- March 2016. Occupied- May 2016. Total Floor area: 1991 sft. (Approximately))
3. Security Post (Single storied RCC construction. Construction started- January 2023 and ended- March 2023. Occupied- April. Total Floor area: 688 sft. (Approximately))

Points of contact:

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Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified **(Main Building, Sub-Station Building, Security Post)** 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 review.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire-Rated Construction	The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. Several fire doors were not latching properly, and doors coordinator were also not properly functional and penetrations are located in exit stair enclosures due to electrical cable.	Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, positive latching and that they are provided with fire exit (panic) hardware where serving production floors. Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure. 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-02	Fire Rated Construction	Unprotected openings enclose the exterior of the stairway (stair-1) and openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad).	Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad), the building exterior walls within 3050 mm (10 ft) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hr. Openings within such exterior walls shall be protected by opening protectives having a fire protection rating of not less than ¾ hr.	Within 3 months
				

F-03	Fire Rated Construction	Storage room/areas discharges directly into the exit stair enclosure. Location: 1st Floor.	Openings from exit enclosure to storage room, generator and transformer spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC standard 6.14.3.	Within 3 months
 				

F-04	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas. The fire door was not properly latching at ground floor.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				

F-05	Fire-Rated Construction and Means of Egress	The upper deck portion of the ground floor fails to meet the RSC building standard and BNBC 2006 requirements for floor-to-floor separation, stair separation, and related criteria.	The floor shall adhere to the RSC building standards and BNBC 2006 regulations regarding fire separation and egress features.	Within 3 months
 				

F-06	Means of Egress	Abrupt changes in the elevation of walking surfaces were observed, not meeting the RSC Technical Guidelines (Standard) ¹ V1.0 Section 6.3.4.	Abrupt changes in elevation of walking surfaces shall not exceed ¼ in. unless provided with a beveled slope of 1 in 2 that do not exceed ½ in. Changes greater than ½ in. shall meet the requirements for RSC Technical Guidelines (Standard) ¹ V1.0 Section 6.3.5.	Within 1 month
				

F-07	Means of Egress	Storage found inside exit stair enclosure at top floor.	Remove all storage from exit stairs enclosures.	Within 1 month
 				
F-08	Means of Egress	Building did not have occupant load signs at required locations.	The occupant load shall be posted for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	Within 1 month

F-09	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: 1st Floor.	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 2 months
F-10	Egress Lighting	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-11	Human Element Programmes	The required no smoking signs are not present at the required locations.	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 2 months

F-12	Fire Alarm & Detection System (FADS)	The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit the fire alarm and detection system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 month and modification/ installation with 4 months
 				

F-13	Fire Suppression System (SUPS)	The highest occupied floor of the main building is over 75 feet above grade, mandating a sprinkler system along with a class I standpipe. The factory has installed a sprinkler system with a class III standpipe, requiring a detailed review to ensure compliance with NFPA 13, 14, 20, 22, and 24 and RSC Technical Guidelines (Standard).	Submit the fire Suppression System (fire pump, standpipe and sprinkler) design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 13, 14, 20, 22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 month and modification/ installation with 4 months
 				

F-14	Inspection, Testing and Maintenance (ITM) of FADS.	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with standard.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Within 1 Month (after installation)
F-15	Inspection, Testing and Maintenance (ITM) of standpipe system	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system in accordance with NFPA 25 and keep written records on-site.	Within 1 Month (after installation)
F-16	Inspection, Testing and Maintenance (ITM) of fire pump system	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump in accordance with NFPA 25 and keep written records on-site.	Within 1 Month (after installation)
F-17	Inspection, Testing and Maintenance (ITM) of fire pump system	Inspection, testing, and maintenance for the sprinkler is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump in accordance with NFPA 25 and keep written records on-site.	Within 1 Month (after installation)