

INITIAL FIRE SAFETY INSPECTION REPORT

Futex Bangladesh Garment Manufacturing Co., Ltd.

RSC ID: 26130

Address: Dhakkin Gouripur, Ashulia, Savar, Dhaka-1341

Geographic Location: 23.88478, 90.31753

Other Factories: None



Inspected By: Nainin Nowrose

Date: 03-Feb-2025

Fire Safety Inspection Report

Futex Bangladesh Garment Manufacturing Co., Ltd.

Introduction:

Futex Bangladesh Garment Manufacturing Co., Ltd. was surveyed for fire safety on 3rd February, 2025 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): There are total 10 nos of structures in the factory compound under this RSC ID: 26130 where approval authority of all structures are Upazila Engineer, Savar. The buildings are as below:

SI No	Building Name & Description	Construction History	Period
1	Shed-1 Single storied steel shed. Total Approx Area: 29585.6 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim
2	Shed-2 Single storied steel shed Total Approx Area: 26181.78 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim
3	Utility Building Single storied RCC building Total Approx Area: 2260 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim
4	Fire control room Single storied RCC building Total Approx Area: 75 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim

5	Dining & Fire Pump Room Single storied steel shed with basement Total Approx Area: 6770.838 sqft	Construction Start: Jul, 2024 Construction End: Aug, 2024 Date of first Operation: Aug, 2024 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	New
6	Medical & Female Prayer Single storied steel shed Total Approx Area: 672 sqft	Construction Start: Jul, 2024 Construction End: Aug, 2024 Date of first Operation: Aug, 2024 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	New
7	Office Shed Single storied steel shed Total Approx Area: 928.46 sqft	Construction Start: Jul, 2024 Construction End: Aug, 2024 Date of first Operation: Aug, 2024 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	New
8	Chemical & Wastage Shed Single storied steel shed Total Approx Area: 720 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim
9	Security Shed Single storied steel shed. Total Approx Area: 80 sqft	Construction Start: Jul, 2024 Construction End: Aug, 2024 Date of first Operation: Aug, 2024 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	New

10	Male toilet Single storied RCC structure. Total Approx Area: 420 sqft	Construction Start: Sep, 2018 Construction End: Mar, 2019 Date of first Operation: Mar, 2019 Building Approval: 31 Jul 2024 by Upazila Engineer, Savar, Dhaka	Interim
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Findings & Recommendations :

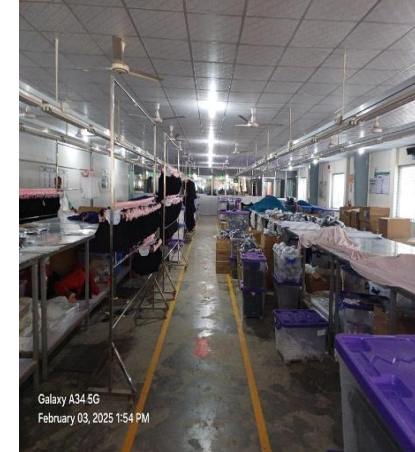
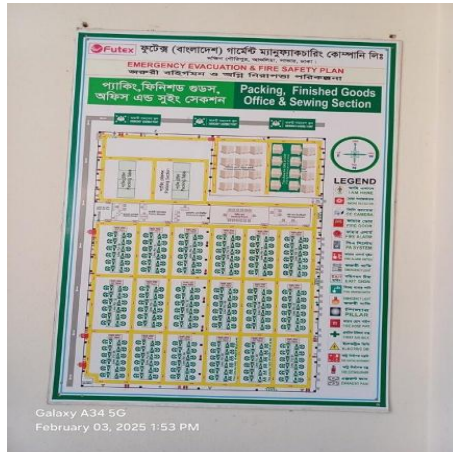
Table 1 & 2 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested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

Table-1: Shed-1

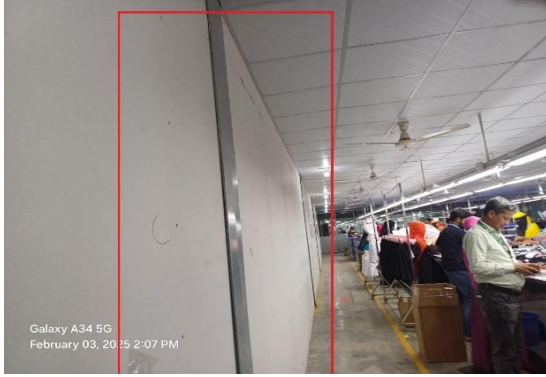
Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The Shed-1 was constructed at 2018-19. The construction type is unprotected steel construction. As per RSC Technical Guideline and BNBC 2006, The Fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. Fire Resistance Ratings of Exterior Walls is not maintaining considering the Fire Separation Distance.	The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.	Within 6 months



F-2	Means of Egress	The maximum travel distance exceeds 45 m at production occupancy (G2) and 30 m at finished goods warehouse which is not meet Section 6.13 of RSC Technical Guidelines (Standard). Location: Shed-1	Reconfigure the egress arrangement or provide additional exits so that the travel distance shall not exceed 45 m for G2 and 30 m for H2. or, Provide a standpipe system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire detection system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 60 m (200 ft). or, Provide a complete automatic sprinkler system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire alarm system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 122 m (400 ft).	Within 3 months
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F-3	Fire Rated Construction	The east exit discharge path of Shed-1 was not fire separated with Shed-2. The egress court was not fire rated. The egress court has unprotected openings within 10 ft height.	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 months
				

F-4	Fire Rated Construction	Rooms used for storage of combustible materials are not separated due to non rated board partition from the packing section at Shed-1.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)	Within 3 months
 				
F-5	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. Location: Shed-1	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 3 months

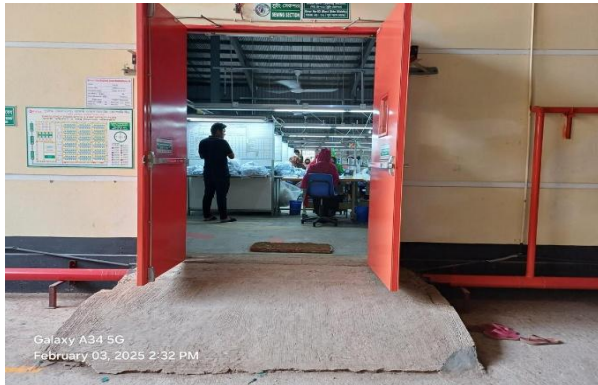
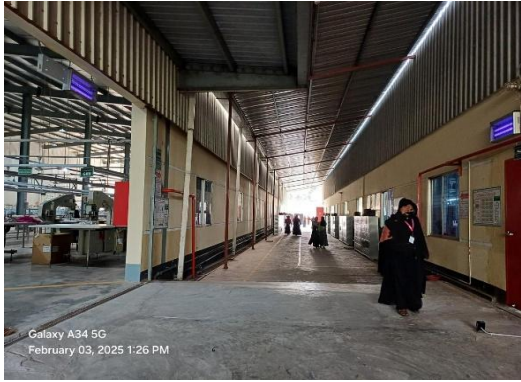


Table-2: Shed-2 & other sheds

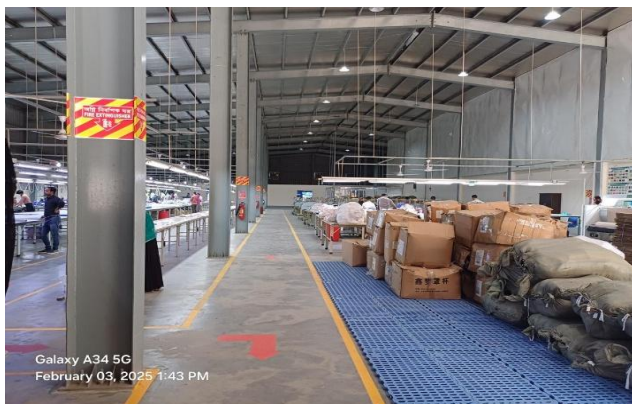
Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The Shed-2 was constructed at 2018-19. The construction type is unprotected steel construction. As per RSC Technical Guideline and BNBC 2006, The Fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. Fire Resistance Ratings of Exterior Walls is not maintaining considering the Fire Separation Distance.	The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.	Within 6 months



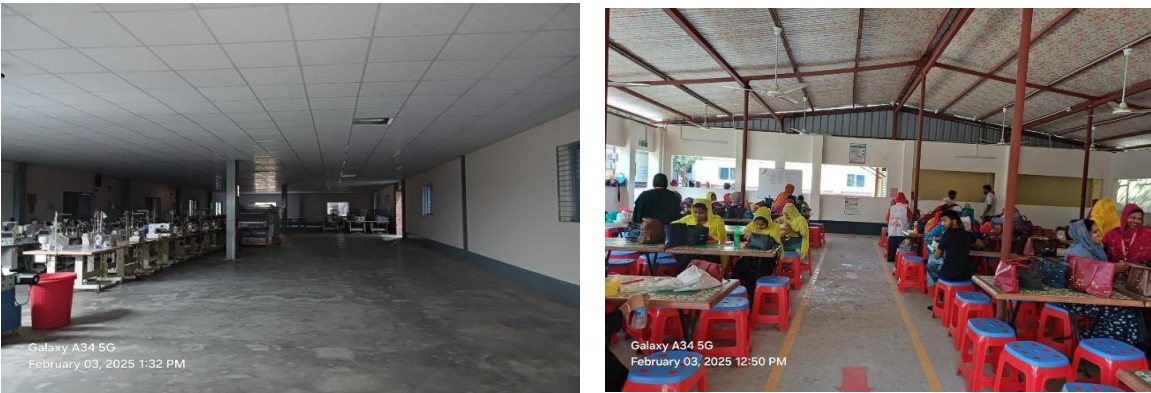
F-2	Fire Rated Construction	The east side exit discharge path was not fire separated with Utility building and west side exit discharge path was not separated from Shed-1. The egress court was not fire rated. The egress court has unprotected openings within 10 ft height.	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 months
 				

F-3	Fire Rated Construction	Rooms used for storage of combustible materials are not separated due to non rated board partition and penetrations from the cutting section and other occupancies at Shed-2.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)	Within 3 months
				
F-4	Means of Egress	Sliding door has been provided along means of egress Location: Shed-2.	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard) ¹ V1.0. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.	Within 1 month

				
F-5	Emergency Lighting	Directional exit sign was not provided along a path of egress. Location: Shed-2	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month



F-6	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Shed-2 & Dining shed.	Test the emergency lighting system 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	Emergency Lighting	Manual on-off switch is provided for exit signage at the door to the egress. Location: All building.	Remove manual on/off switches from exit signage units to prevent them from being switched off.	Within 1 month



F-8	Fire Rated Construction	Flammable liquid storage (diesel) was found without required fire separation from wastage store and mechanical warehouse.	Separate the hazardous materials / flammable liquid storage room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings and penetrations to maintain the required fire separations.	Within 3 months
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F-9	Fire Rated Construction	Fire Resistance Ratings of Exterior Walls is not maintaining considering the Fire Separation Distance. Location: Utility, Dining & Fire Pump, Medical & Female Prayer Shed, Office Shed and Chemical & Wastage Shed.	The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.	Within 6 months

				
F-10	ITM Emergency lighting units	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard)¹ V1.0..	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard)¹ V1.0.. Keep written records on-site.	Within 1 month

F-11	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
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F-12	Fire detection system inspection, testing and maintenance	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 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 month after installation.
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