

Fire Safety Inspection Report

Shamser Knit Fashions Ltd. (Unit-2) Extension

Introduction:

Shamser Knit Fashions Ltd. (Unit-2) Extension; complex was surveyed for fire safety on **24-Sept-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

There are a total of 3 structures covered under this RSC ID-24242. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	RCC Building-1: (Production, Childcare & Fire control): G+4 Storied Total Floor Area: 18,210 Sq. ft	Sep-2019 to Mar-2022	Approved by Savar Cantontment on 25-Mar-2024 for all structures	Nov-2022	RCC	Interim Building
2	Shed Building: (Office Building): G+1 Storied Total Floor Area: 11,000 Sq. ft	Mar-2016 to Jan-2019		Feb-2019	Steel	Interim Building
3	RCC Building-2: (Cutting building): G+6 Storied Total Floor Area: 39,715 Sq. ft	Dec-2023 to Jun-2025		Jan-2025	RCC	New Building

Factory Address: Sreepur Bus stand, Ganakbari, Savar, Dhaka

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 review.

Table-1: RCC Building-1

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to fire doors kept with unauthorized means, and clearance under the bottom of the door was more than 19 mm. Location(s): All floors (B-1).	Ensure that the fire doors are self-closing and positive latching. If fire doors are required to be held open for operational purposes, provide automatic closing devices tied to the fire alarm system. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).	Within 3 months
 				

F-02	Means of Egress	Aisles were found missing in several locations throughout the building. Location(s): All floors (B-1).	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 1 Month
				
F-03	Means of Egress	Fire evacuation maps are not updated as per site conditions. Location(s): All floors (B-1).	Update the fire evacuation map and shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 13.3.	Within 1 Month

F-04	Means of Egress	Stair clear width was found less than 60 in. Location: North Stair -55" (Landing: 46") South Stair-54" B-1.	Stairs shall have a minimum clear width of 60 in. in for all industrial occupancies as per RSC Technical Guideline (Standard) section 6.5.6	Within 3 Months
 				

F-05	Means of Egress	Storage areas discharge directly into the exit stair enclosure. Location(s): 1st floor (if used as store) & 2nd floors, B-1.	Openings from exit enclosure to Storage areas shall be provided with a vestibule with fire-rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a min 1-hr fire-rated door on the exit stair side and a 1.5 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 Technical Guidelines (Standard)¹ V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 Months
				

F-06	Means of Egress	Building does not have occupant load signs at required locations on all floors. Location(s): All floors (B-1).	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4.	Within 1 Month
F-07	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): All floors (B-1).	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.	Within 1 Month
				

F-08	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): All floors (B-1).	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.	Within 3 Months
 				

F-09	Means of Egress	Building does not have stair/floor level designation signs at required locations on all floors. Location(s): All floors (B-1).	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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.	Within 1 Month
F-10	Means of Egress	Manual on-off switch is provided for emergency lighting / exit signage units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 Month
				

F-11	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding packing inspection rooms. Location: 1st floor (B-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-12	Fire Rated Construction	The required fire separation distance for RCC Building-01 does not comply with the requirements of BNBC 2006. Location: North Side (B-1).	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
				

F-13	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards. Location(s): B-1.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard) Submit the proposed fire alarm 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 comments, RSC/ 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-14	Inspection, Testing & Maintenance (Fire)	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.

F-15	Fire Suppression System (SUPS)	The required standpipe system is not installed in accordance with the RSC Technical Guidelines (Standard)¹ V1.0. Location: B-1.	A standpipe system shall be installed in buildings with the highest occupiable floor 10 m (33 ft.) above grade or more to meet section 5.4.2 of RSC Technical Guideline (Standard). If the building is protected throughout by an approved automatic sprinkler system, a class I system shall be permitted. Installation of the Standpipe system shall be in accordance with RSC Technical Guidelines (Standard)¹ V1.0. section 5.4 and NFPA 14. Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)¹ V1.0. and NFPA 14,20,22, and 24. After installation, the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 month and modification/ installation with 4 months
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F-16	Fire Suppression System (SUPS)	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and RSC Technical Guidelines (Standard)¹ V1.0. Location: All Buildings.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)¹ V1.0. and NFPA 14 and 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design within 2 month and modification/ installation with 4 months
F-17	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard)¹ V1.0.	Within 1 Month after installation.
F-18	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location: B-1.	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard)¹ V1.0.s.	Within 1 Month

F-19	Inspection, Testing & Maintenance (Fire)	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. Location: B-1.	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-20	Inspection, Testing & Maintenance (Fire)	Written housekeeping policy was not found, which is required as per RSC Technical Guideline (Standard) section 13.6. Location: All Buildings.	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m2 (500 ft2). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).	Within 1 Month
F-21	Inspection, Testing & Maintenance (Fire)	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard)¹ V1.0. Location: All Buildings.	Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0. Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A.	Within 1 Month

Findings & Recommendations :

Table-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 review.

Table-2: RCC Building-2

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-22	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location(s): All floors (B-2).	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 1-hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 2 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).	Within 3 months

		 	
F-23	Means of Egress	Aisles were found missing in several locations throughout the building. Location(s): All floors (B-2).	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible. Within 1 Month
		 	

F-24	Means of Egress	Minimum ceiling height of the production floor is less than 3.3 meter for New Building. Location(s): 1st floor to 7th floor (B-2).	The ceiling height of a production floor shall not be less than 3.3 meter as per article 1.2, chapter 1, part III and article 2.11, Part III, Chapter -2, BNBC 2020.	Within 3 Months
				
F-25	Means of Egress	Exit stairs serve more than 5 stories and do not have the required reentry provisions on all floors. Location(s): B-2.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard)¹ V1.0. Section 6.8.3.1.	Within 1 Month

F-26	Means of Egress	Handrails are not provided on both sides of each exit stairs on all floors. Having handrails on one side of said staircase, may pose as a falling hazard during evacuation. Location(s): Both Stairs, B-2.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.	Within 3 Months
				

F-27	Means of Egress	Parapets or guards are not provided in occupiable roof. Location(s): B-2.	Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard) ¹ V1.0 Section 6.12.	Within 3 Months
				
F-28	Means of Egress	Fire evacuation maps is not posted at the entrance of all exit stair. Location(s): All floors (B-2).	Fire evacuation maps shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard) ¹ V1.0 Section 13.3.	Within 1 Month

F-29	Means of Egress	Storage areas discharge directly into the exit stair enclosure. Location(s): GF, 1st & 4th floor (B-2).	Openings from exit enclosure to Storage areas shall be provided with a vestibule with fire-rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a min 1-hr fire-rated door on the exit stair side and a 1.5 hr./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 Technical Guidelines (Standard)¹ V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 Months
				

F-30	Means of Egress	Building does not have occupant load signs at required locations on all floors. Location(s): All floors (B-2).	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4.	Within 1 Month
F-31	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): All floors (B-2).	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.	Within 1 Month
				

F-32	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): All floors (B-2).	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.	Within 3 Months
 				

F-33	Means of Egress	Building does not have stair/floor level designation signs at required locations on all floors. Location(s): All floors (B-2).	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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.	Within 1 Month
F-34	Means of Egress	Exit sign not provided at exit. Location(s): Several floors (B-2).	Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.	Within 1 Month
				

F-35	Fire Rated Construction	Storages were found underneath the cutting tables. Location(s): 2nd & 3rd floors (B-2).	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 or , Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles..	Within 3 Months
				

F-36	Fire Rated Construction	Elevator shafts (Provision) open directly into the production floor without proper fire separation due to unprotected opening. Location(s): All floors (B-2).	Elevator shaft shall be separated from production area by 2 hours fire rated construction. 2-hr fire barriers shall be protected with minimum 1.5-hr fire protective opening assemblies.	Within 3 Months
				

F-37	Fire Rated Construction	The required fire separation distance for RCC Building-02 does not comply with the requirements of BNBC 2020.. Location: South Side (B-2).	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 6 Months
				

F-38	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards. Location(s): B-2.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard) Submit the proposed fire alarm 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 comments, RSC/ 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-39	Inspection, Testing & Maintenance (Fire)	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.
F-40	Fire Suppression System (SUPS)	The high-rise building has an occupied floor greater than 23 meter (75 feet) where required automatic sprinkler protection is not installed with NFPA-13 which is required as per section 3.6.3 of RSC Technical Guideline (Standard) . Location: B-2.	Provide automatic sprinkler protection along with class-I standpipe system throughout the building in accordance with NFPA 13, 14, 20 and 22. Submit design to RSC for review prior installation. Submit the Sprinkler system drawing to RSC for review. Once reviewed, install or modify the sprinkler system throughout the building in accordance with RSC Technical Guidelines (Standard)¹ V1.0. and NFPA 14,20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the sprinkler system.	Design within 2 month and modification/ installation with 4 months

F-41	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25. Location: B-2.	Inspect, test and maintain the automatic sprinkler system and keep written records on- site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation.
F-42	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location: B-2.	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month
F-43	Inspection, Testing & Maintenance (Fire)	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. Location: B-2.	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

Findings & Recommendations :

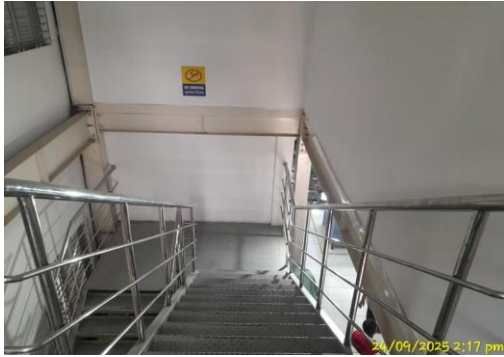
Table-3 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for review.

Table-3: Shed Building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-44	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location(s): Shed Building.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 1-hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).	Within 3 months

				
F-45	Means of Egress	Exit stair terminates the occupants inside the building which does not comply with section 6.17 of RSC Technical Guidelines (Standard)¹ V1.0. Location(s): North Stair (Shed Building).	Exits shall discharge directly to the exterior of the building unless meeting the requirements of 6.17.2 or 6.17.3 as per RSC Technical Guidelines (Standard)¹ V1.0.	Within 3 Months
				

F-46	Means of Egress	Unprotected opening within 10 ft horizontal distance from the discharge point where the elevation of the unprotected opening is less than 10 ft. Location: South Stair (Shed Building).	Provide protection of unprotected openings within 10 ft horizontal distance from discharge point where elevation of unprotected opening is less than 10 ft.	Within 3 Months
				

F-47	Means of Egress	Stair clear width was found less than 60 in. Location(s): North Stair- 48" South Stair- 48" Shed Building.	Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section 6.5.6	Within 3 Months
				
F-48	Means of Egress	Fire evacuation maps are not updated as per site conditions. Location(s): All floors (Shed Building.).	Update the fire evacuation map and shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 13.3.	Within 1 Month

F-49	Means of Egress	Building does not have occupant load signs at required locations on all floors. Location(s): All floors (Shed Building.).	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4.	Within 1 Month
F-50	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): All floors (Shed Building.).	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.	Within 1 Month
				

F-51	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): All floors (Shed Building.).	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.	Within 3 Months
				
F-52	Means of Egress	Building does not have stair/floor level designation signs at required locations on all floors. Location(s): All floors (Shed Building.).	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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.	Within 1 Month

F-53	Fire Rated Construction	Boiler room is not properly separated by fire-rated construction from other Occupancies due to penetrations. Location(s): GF, (Shed Building).	Boilers or other heat-producing equipment shall be separated from other occupancies by a minimum 1-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) should be protected by 0.75-hr (45 min) fire-rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Or Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. Boiler room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard).	Within 3 Months
				

F-54	Fire Rated Construction	The main structural element of the interim building is constructed of steel which is non-rated and was found in exposed condition without any fire protection. Location: Steel Shed Building.	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. 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 required fire rating. Submit the design philosophy along with the required documents to RSC for review the required construction type.	Within 6 Months
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F-55	Fire Rated Construction	The required fire separation distance for Shed Building does not comply with the requirements of BNBC 2020. Location: North & South side of the Steel Shed Building.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 6 Months
 				

F-56	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards. Location(s): Steel Shed Building.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard) Submit the proposed fire alarm 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 comments, RSC/ 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-57	Inspection, Testing & Maintenance (Fire)	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.
F-58	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location: Steel Shed Building.	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month
F-59	Inspection, Testing & Maintenance (Fire)	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. Location: Steel Shed Building.	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-60	Means of Egress	Some lighted exit signs were two-sided, so that they indicated an exit where there were none. Location: 1st Floor (Shed Building).	Ensure that lighted exit signs are only visible from the side that directs people toward an exit path.	Within 1 Month
				