

INITIAL FIRE SAFETY INSPECTION REPORT

Ananta Casual Wear Ltd. (Extension)

RSC ID: 26359

23.929506, 90.390567

Kunia, National University, Gacha, Gazipur

Other Factory : Ananta Casual Wear Ltd. [RSC ID: 9180]



Inspected By: Tanvir Jubayer Rahman

Date: 03-July-2025

Fire Safety Inspection Report

Ananta Casual Wear Ltd. (Extension)

Introduction:

Ananta Casual Wear Ltd. (Extension) complex was surveyed for fire safety on **03-July-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): A short description of the structures of this RSC ID are following,-

SI	Name	Construction year	Type
01	Laundry Building Two storied Steel Structure with two mezzanines on ground floor (G+M+1) Approx. Area: 1,15,200 Sft	Construction Period: January 2014 to December 2014 Occupied year : January 2015 Approval Date: 26-March-2013 (LGED)	Interim Construction
02	ETP Building Two storied RCC building (G+1) Approx. Area: 7,000 Sft (including waste water tanks and fire pump room, WTP)	Construction Period: January 2014 to December 2014 Occupied year : January 2015 Approval Date: 26-March-2013 (LGED)	Interim Construction
03	Cantilever shed -4 Single storied non engineered Shed for walkway Approx. Area: 300 Sft	Construction Period: November 2014 to December 2014 Occupied year : January 2015 Approval Date: 26-March-2013 (LGED)	Interim Construction
04	Security Room (Laundry) Single storied non engineered Shed Approx. Area: 100 Sft	Construction Period: November 2014 to December 2014 Occupied year : January 2015 Approval Date: 26-March-2013 (LGED)	Interim Construction
05	RCU room Single storied non engineered Shed Approx. Area: 300 Sft	Construction Period: November 2014 to December 2014 Occupied year : January 2015 Approval Date: 26-March-2013 (LGED)	Interim Construction

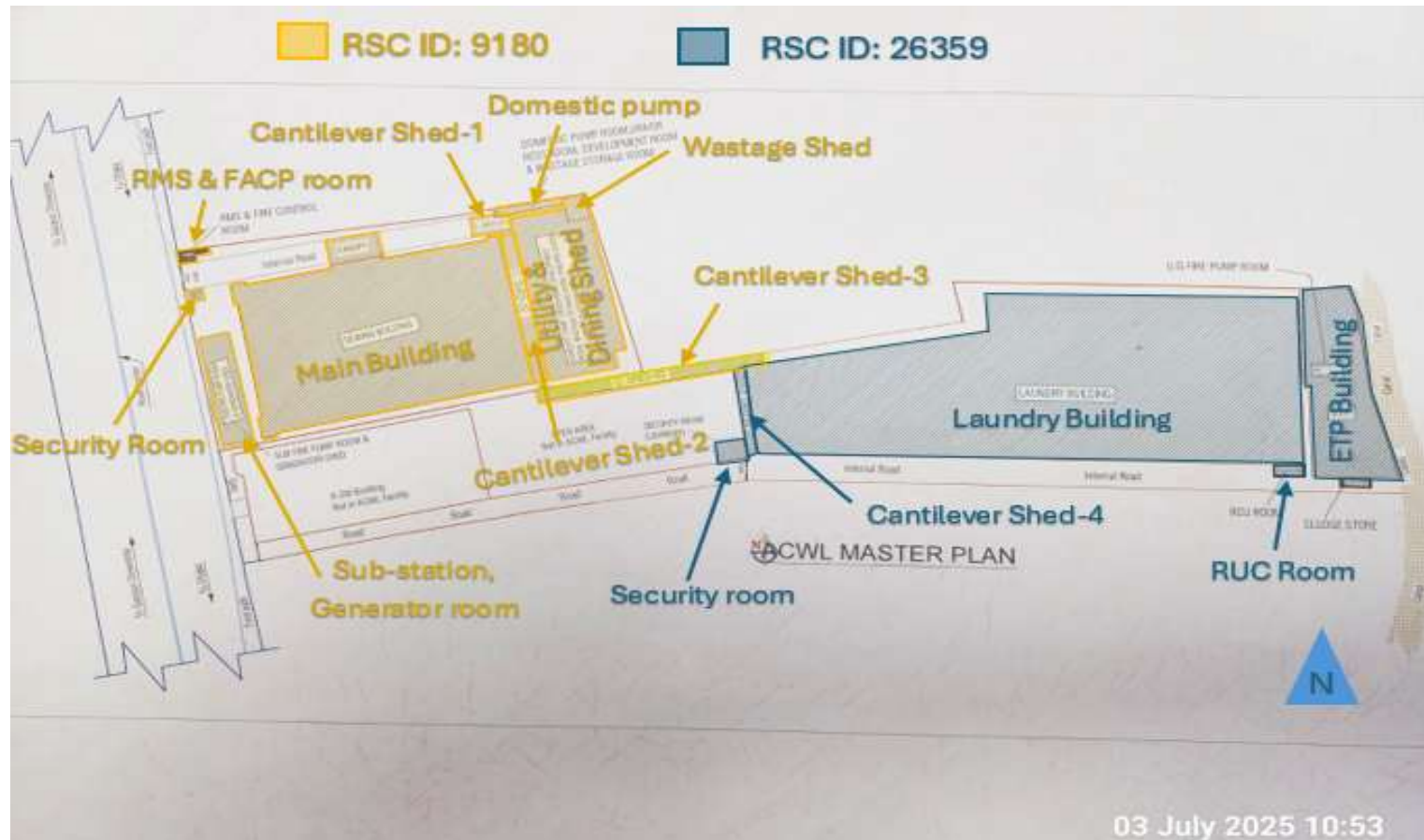
Other Structures in the factory premises:

Main Building (6-Storied RCC Production building), **Utility & Dining Shed** (single storied prefabricated steel shed), **Sub-station & Generator** (single storied steel shed), **RMS & Fire Control Room** (single storied RCC), **Domestic Pump room** (single storied masonry building), **Security room** (single storied RCC), **Wastage shed** (Non-engineered single storied masonry building), **Cantilever shed -1, 2 & 3** (Non-engineered Shed over walk way)

Above mentioned structures are covered under Ananta Casual Wear Ltd.[RSC ID: 9180]

Factory Address: Kunia, National University, Gacha, Gazipur

Factory Premises Layout with building name and RSC ID:



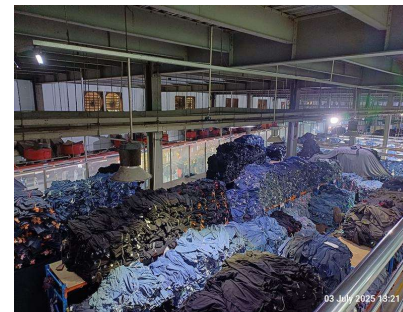
Findings & Recommendations :

Ananta Casual Wear Ltd. (Extension)

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

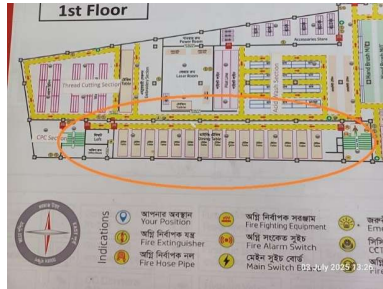
Table-1

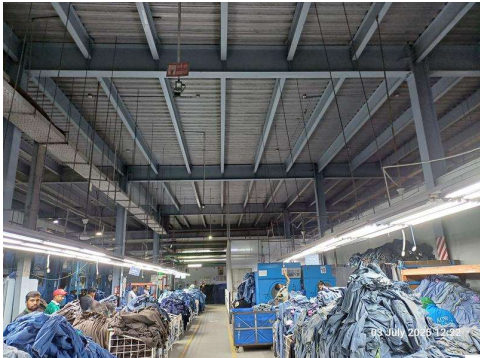
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Ground floor and first floor of laundry building.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. or, If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 Months

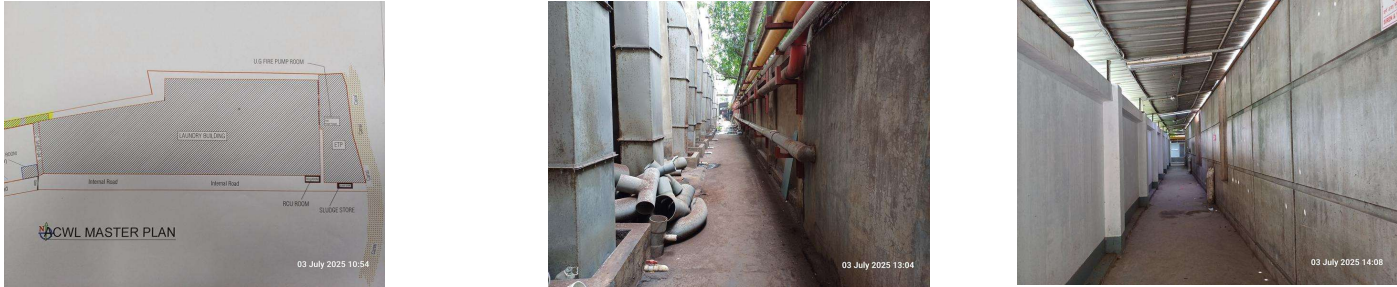


F-02	Fire Rated Construction	Elevator shafts open directly into the production floor without proper fire separation due to unprotected opening caused by non-functional fire rated doors. Location: Laundry building, near stair-1.	Elevator shaft shall be separated from production area by 2 hours fire rated construction. 2-hr fire barriers shall be protected with minimum 1.5-hr fire protective opening assemblies.	Within 3 Months
				
F-03	Fire Rated Construction	Chemical storage area is not separated by fire-rated construction having nonfunctional fire rated door, and unsealed penetrations and openings. Location: East side and west side chemical storage room on the ground floor of the laundry building.	Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour. Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13. or, Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006).	Within 3 Months
				

F-04	Fire Rated Construction	Penetrations through floor/ceiling assemblies due to PVC plumbing pipes, are found unsealed. Location: Boiler room and west side chemical storage area located on the ground floor of Laundry building.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr./ 2-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard) Or, Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.	Within 3 Months
				

F-05	Fire Rated Construction	Boiler room is not properly separated by fire rated construction with other Occupancies/Areas due to unsealed penetrations located in the rated wall. Location: Boiler room located at the east side of ground floor of Laundry 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-06	Fire Rated Construction	The dining area on the 1st floor of laundry building (with more than 300 occupants) is not separated from the production (G2 occupancies) area by fire-rated construction.	Limit the occupant load to 300 or below. Afterward, Separate the dining area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations. Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.	Within 3 Months
 				

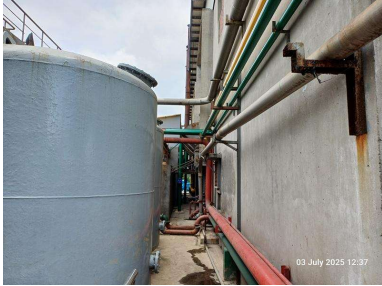
F-07	Fire Rated Construction	The main structural element of the interim building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Laundry building.	The construction type is unprotected steel construction. As per RSC Technical Guideline 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. Once the design philosophy is reviewed, provide fire ratings of structural members.	Within 6 Months
 				

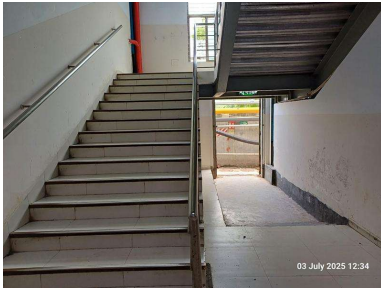
F-08	Fire Rated Construction	The required fire separation distance for "Laundry Building" does not comply with the requirements of BNBC 2006	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
				
F-09	Fire Rated Construction	The medical room is not separated from the mechanical workshop and mechanical storage area. Location: North-east mezzanine floor of laundry building.	Separate the medical room from other occupancy ac per Table 3.2.1 (BNBC 2006).	Within 3 Months
				

F-10	Fire Rated Construction	Liquefied or compressed gas cylinders were located within the factory on the south-east side of the laundry building without adequate fire separation. Location: Near RCU room.	Remove the liquefied or compressed flammable gas cylinders. The storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building as per section 3.4.2.1.11 of RSC Technical Guidelines (Standard)¹ V1.0. Or, Factory shall follow the requirements RSC Published "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES" to use or store liquefied or compressed flammable gas cylinders in the factory premises.	Within 3 Months
				

F-11	Means of Egress	The fire doors at the exit stair enclosures were found held open by unauthorized means, the fire doors were not effectively latching, and door coordinators were not properly functional. The clearance under the bottom of a door was more than 19 mm in some cases. Location: Laundry building.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories. Provide 1-hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0. 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-12	Means of Egress	Boiler room discharges directly into the exit stair enclosure. Location(s): Ground floor, Stair-3 of laundry building.	Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ generator rooms/ boiler rooms and similar normally unoccupied spaces 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-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-13	Means of Egress	An electrical panel was located in the exit stair enclosure. Location(s): Ground floor, Underneath Stair-2.	Remove and re-locate all Electrical panels/water pump/food cabinet/shoe cabinet/Toilet from exit stair enclosures. Or, Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)¹ V1.0.	Within 3 Months
		 		

F-14	Means of Egress	The egress court [serving north-east exit, stair-4] is less than 10 ft wide and is not separated from the building interior/adjacent building exterior which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard)¹ V1.0. Location: At the east side of Laundry Building.	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. Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation.	Within 3 Months
 				
F-15	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, at the egress court serving north-east exit. Location: At the east side of Laundry Building.	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
 				

F-16	Means of Egress	The headroom measured less than 80 inches (found 68 inches). Location: On the egress court serving the north-east exit.	All means of egress shall have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.). The minimum ceiling height shall be maintained for at least 2/3 of the space or room as long as the remaining area shall be not less than 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.) as per RSC Technical Guideline (Standard) section of 6.3.3.	Within 3 Months
 				
F-17	Means of Egress	Stair clear width was found less than 60 inches. Location: Stair-3 (56 inches) & Stair-4 (54 inches)	Stairs shall have a minimum clear width of 60 inches for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6	Within 3 Months
 				

F-18	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Typical for all locations.	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-19	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Ground and first floor of laundry 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-20	Means of Egress	Fire evacuation maps is not posted at the entrance of all exit stair. Location: Laundry building.	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-21	Means of Egress	Building does not have occupant load signs at required locations on all floors. Location: Laundry 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-22	Means of Egress	Building does not have stair/floor level designation signs at required locations on all floors. Location: Laundry 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-23	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). Location: Typical for all structures and all locations.	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-24	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-25	Inspection, Testing & Maintenance (Fire)	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 on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month
F-26	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..	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-27	Licenses and certificates	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0.	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