

INITIAL FIRE SAFETY INSPECTION REPORT

GENESIS FASHIONS LTD. (Extension - 2)

RSC ID: 26201

126/1 KADDA NANDUN, KADDA BAZAR, GAZIPUR SADAR, GAZIPUR.

Co-ordinate: 23.984908, 90.356668

Other Factories: Genesis Fashions Ltd (ID-12351); Genesis Fashions Ltd.–Extension (Previously Genesis Washing Ltd.) (ID-23012)



Inspected By: Md. Rakibul Islam

Date: 21 April, 2025

Fire Safety Inspection Report

Genesis Fashions Ltd. (Extension - 2)

Introduction:

Genesis Fashions Ltd. (Extension-2) complex was surveyed for fire safety on **21-Apr-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):

Factory Building name(s): The factory premises has several constructed & occupied structures which are covered on 3 (three) different RSC ID's. There are 10 structures in the factory premises. Among them; 1 number of structure was covered under Genesis Fashions Ltd (RSC ID: 12351) named Factory Building-1 and 4 number of structures were covered under Genesis Fashions Ltd. – Extension (Previously Genesis Washing Ltd.) (RSC ID: 23012) named Main Production Building, Office and Chemical Store Building, Utility Building and Compressor Building. On RSC ID: 26201, 5 (five) structures has been covered. Whisker Shed, Annex Building, Store Building-1, Store Building-2 & Childcare-Medical-Dining Building, are covered under this inspection. Description has given below:

SI No	Building Name & Description	Construction History	Period
1	Building-1: Whisker Shed (G) (Single Storied Steel Shed) Total Approx Area: 7,000 Sft	Construction Start: Jan, 2011 Construction End: Jun, 2011 Date of first Operation: Jul, 2011 Building Approval: Sreepur, Poulosava, Gazipur. Date: 27 Mar, 2024. As-built Machine Layout: Department of Inspection for Factories & Establishments (DIFE). Date: 04 Mar, 2024.	Existing
2	Building-2: Annex Building (G+2) 3 Storied RCC Building. Total Approx Area: 43,500 sft	Construction Start: Dec, 2017 Construction End: Nov, 2018 Date of first Operation: Dec, 2018 Building Approval: Sreepur, Poulosava, Gazipur. Date: 27 Mar, 2024. As-built Machine Layout: Department of Inspection for Factories & Establishments (DIFE). Date: 04 Mar, 2024.	Interim

SI No	Building Name & Description	Construction History	Period
3	Building-3: Store Building-1 (G+4) (5 storied Prefabricated Steel Building, peaked shed on roof) Total Approx Area: 43,040 Sft	Construction Start: Jan, 2018 Construction End: Jul, 2018 Date of first Operation: Aug, 2018 Building Approval: Sreepur, Pourosova, Gazipur. Date: 27 Mar, 2024. As-built Machine Layout: Department of Inspection for Factories & Establishments (DIFE). Date: 04 Mar, 2024.	Interim
4	Building-4: Store Building-2 (G) (Single Storied Steel Structure) Total Approx Area: 13,500 sft	Construction Start: Aug, 2022 Construction End: Nov, 2022 Date of first Operation: Dec, 2022 Building Approval: Sreepur, Pourosova, Gazipur. Date: 27 Mar, 2024. As-built Machine Layout: Department of Inspection for Factories & Establishments (DIFE). Date: 04 Mar, 2024.	New
5	Building-5: Medical, Childcare & Dining Building, (G+2) (G+1 RCC, Roof Steel) Total Approx Area: 8,800 sft	Construction Start: Aug, 2019 Construction End: Mar, 2020 Date of first Operation: Dec, 2024 Building Approval: Sreepur, Pourosova, Gazipur. Date: 27 Mar, 2024. As-built Machine Layout: Department of Inspection for Factories & Establishments (DIFE). Date: 04 Mar, 2024.	Interim

Factory Address: 126/1 Kadda Nandun, Kadda Bazar, Gazipur Sadar, Gazipur

Findings & Recommendations :

Table 1, 2, 3, 4 & 5 summarize the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline. 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.

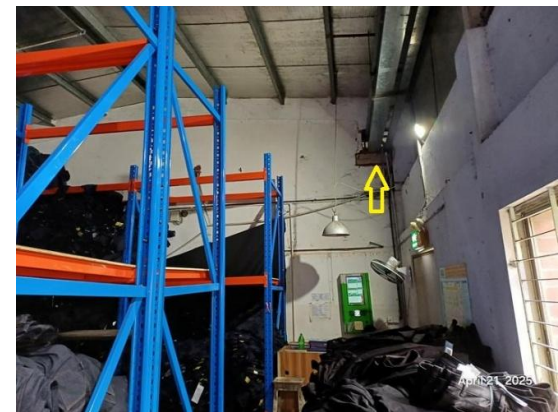
Sr	Fire CAP Numbers	Name of Structure
1	F 01 - F 11	Building-1: Whisker Shed (G) (Single Storied Steel Shed)
2	F 12 - F 34	Building-2: Annex Building (G+2) 3 Storied RCC Building.
3	F 35 - F 58	Building-3: Store Building-1 (G+4) (5 storied Prefabricated Steel Building, peaked shed on roof)
4	F 59 - F 74	Building-4: Store Building-2 (G) (Single Storied Steel Structure)
5	F 75 - F 90	Building-5: Medical, Childcare & Dining Building, (G+2) (G+1 RCC, Roof Steel) Common Observation for all buildings

Table-1: Building-1: Whisker Shed

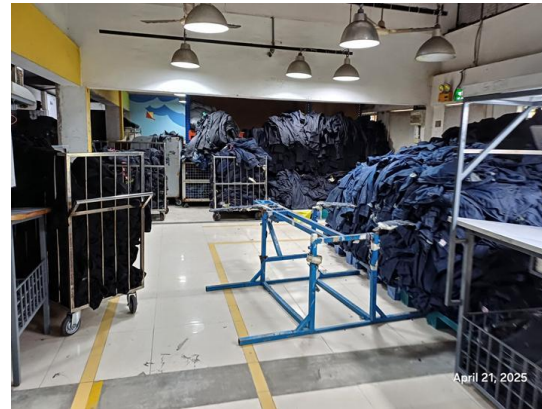
SI No.	Category	Findings	Required Action	Remediation Time Frame
F1	Fire Rated Construction	The required fire separation distance for Building-01: Whisker Shed does not comply with the requirements of BNBC 2006.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Part 3 Section 2.4.1.3. & Tables 3.2.2	Within 6 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F2	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy (Whisker Section).</p> <p>Location: Ground floor of Whisker Shed</p> <p>Non-compliance reason: Fire resistance rating of exterior wall not ensured and unprotected opening/ penetration with production (whisker Section) area.</p>	<p>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).</p> <p>Seal all penetrations and openings in fire rated assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 1-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)</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F3	Fire Rated Construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p>Location: Ground floor of Whisker Shed</p>	<p>Provide defined storage areas and limit the storage arrangement as follows:</p> <p>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.</p> <p>or,</p> <p>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.</p> <p>or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 Months




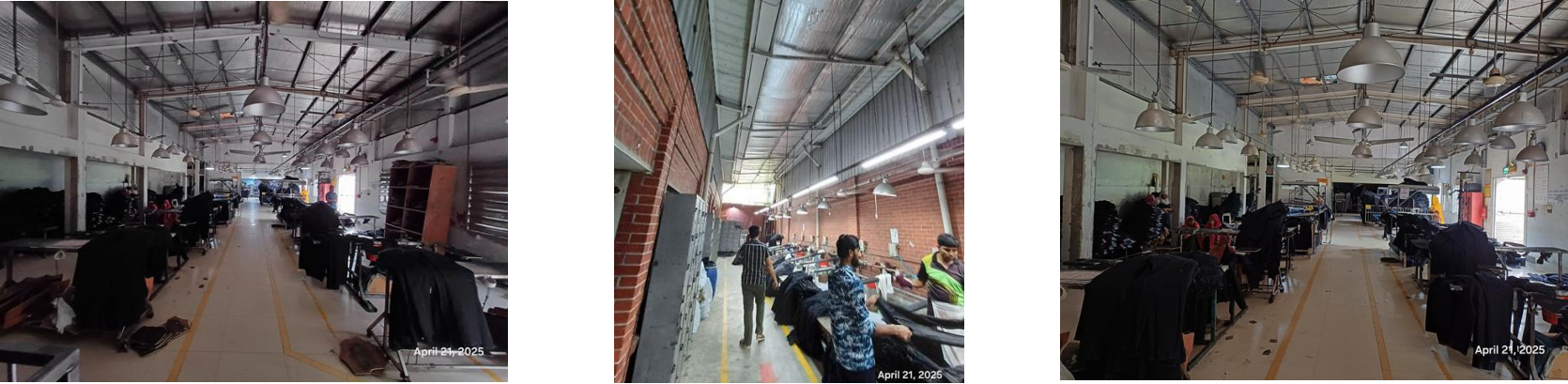
SI No.	Category	Findings	Required Action	Remediation Time Frame
F4	Fire Alarm & Detection system	<p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: Whisker Shed.</p> <p><i>An automatic fire alarm and detection system (Brand-SIMPLEX, Model: 4100ES) has been found installed in building -1 whisker shed. FACP is located at FACP room on 1st floor of Security Building. FACP serves Whisker Shed RSC ID-26201 (previously Canteen Shed); Main Production shed (23012); Warehouse-01 (23012); Warehouse-02; Chemical Auto Dosing ; Generator and boiler room (23012); ETP Building (23012); RMS Room, Substation Room (23012) and Guard, shop and Utility Room (23012). On 23-May-2022; T&C VI of Fire Alarm and Detection System (RSC ID- 23012 named GENESIS WASHING LTD.)was conducted. On 31-Aug-2023: FADS is approved by Final Verification Inspection (FVI). Though in T&C VI Report, Canteen Shed is not evident. During the visit, FACP is active but not in normal condition. 24 numbers of trouble shown in FACP. Few devices are not designated in whisker shed. Exhaust fans are not interfaced with FACP.</i></p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>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.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	<p>Design within 2 Months and modification/ installation with 4 Months</p>

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F5	Fire Alarm & Detection system (ITM of FADS)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: Building-1 Whisker Shed	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site	Within 1 Month (after installation)
F6	Means of Egress	Aisles are found missing on several locations throughout the Whisker Shed. Location: Whisker Section, Rubbing Section on Ground floor of whisker shed	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 1 Month



SI No.	Category	Findings	Required Action	Remediation Time Frame
F7	Fire Suppression System (SUPS)	<p>Portable fire extinguishers are not installed throughout all facilities.</p> <p>Location: Near Distribution Board of Whisker Shed</p>	<p>Portable fire extinguishers shall be installed throughout the facilities in accordance with BNBC 2006 and NFPA 10. Extinguishers shall be placed so that maximum travel distance to the nearest unit shall not exceed 30 m (100 ft).</p>	Within 3 Months
				
F8	ITM of Fire Extinguishers	<p>Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.</p>	<p>Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and The RSC Technical Guidelines (Standard).</p>	Within 1 Month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F9	Means of Egress	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: Whisker Section & Rubbing Section of Whisker Shed.</p>	<p>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.</p>	Within 3 Months
				
F10	Inspection, Testing & Maintenance (Fire)	<p>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..</p>	<p>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.</p>	Within 1 Month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F11	Means of Egress	<p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: All Exits in Whisker Shed</p>	<p>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 .</p>	<p>Within 1 Month</p>

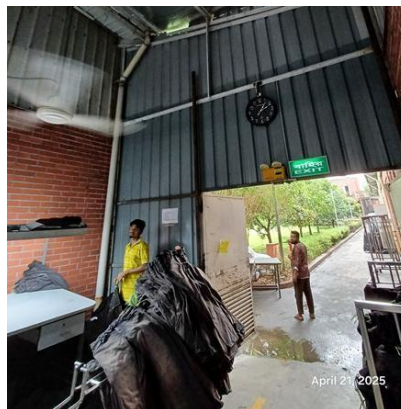
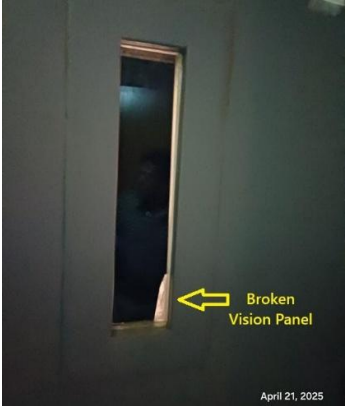
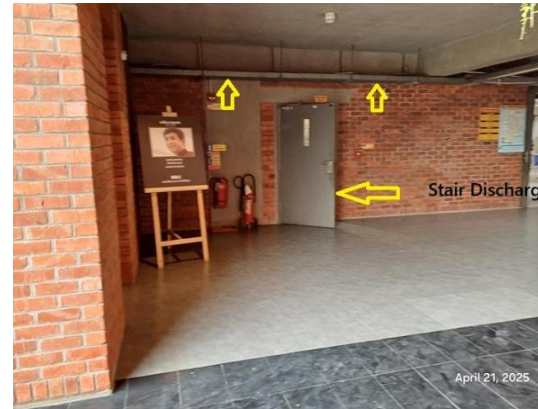


Table-2: Building-2: Annex Building (G+2); 3 Storied RCC Building.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F12	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: Building-2: Annex Building</p> <p>Non-compliance reason: (i) Unsealed openings are found fire rated barrier construction; (ii) Proper certification is not available for fire rated doors and door accessories installed in the factory. & (iii) Vision panel is missing in a fire door.</p>	<p>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.</p> <p>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.</p> <p>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).</p>	Within 3 Months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 <p>Opening in Staircase</p> <p>April 21, 2025</p>	 <p>Opening in Staircase</p> <p>April 21, 2025</p>	 <p>Broken Vision Panel</p> <p>April 21, 2025</p>
		 <p>April 21, 2025</p>	 <p>April 21, 2025</p>	 <p>April 21, 2025</p>

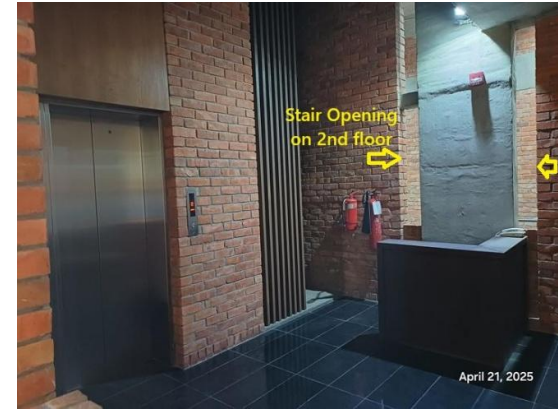
SI No.	Category	Findings	Required Action	Remediation Time Frame
F13	Means of Egress	<p>Unsealed penetrations and openings are located in exit stair enclosures. Electrical cable/ BBT raceway passing through the exit enclosure.</p> <p>Location(s): south-east stair-1 on ground and 2nd floor of Annex Building</p>	<p>No other penetration into and through the exit enclosure except for fire alarm equipment electrical raceway, required exit doors, sprinkler piping, standpipes, and electrical conduit serving the exit enclosure is permitted in accordance with section 6.14.4 of RSC Technical Guidelines (Standard)¹ V1.0. So, relocate the electrical wires/raceways to somewhere else avoiding the exit enclosure, and seal the created unprotected openings with a minimum of 1.5 hours listed/certified fire-rated materials. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating. Or seal the penetration by 2-hr masonry construction.</p>	Within 3 Months



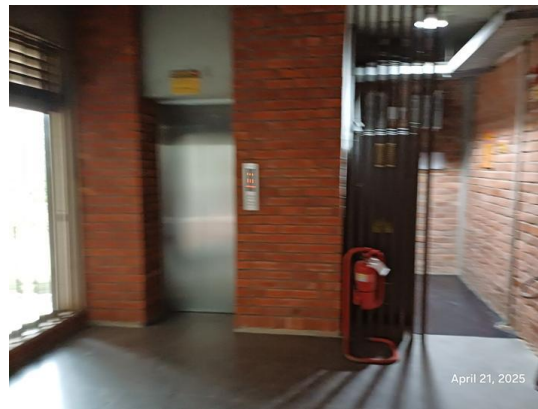
SI No.	Category	Findings	Required Action	Remediation Time Frame
F14	Means of Egress	<p>Exit stair-1 (South-East) terminates the occupants inside the building which does not comply with section 6.17 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>Location: South-East Exit Stair-1 Discharge on ground floor of Annex Building.</p> <p>Non-compliance reason: Unsealed openings are found (i) From production area on ground, 1st and 2nd floor; (ii) From Lift Shaft, FACP room and Toilet zones on ground floor</p>	<p>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.</p>	<p>Within 3 Months</p>



SI No.	Category	Findings	Required Action	Remediation Time Frame
F15	Fire Rated Construction	<p>Elevator/ Lift shafts open directly into the exit enclosure on 2nd floor and protected discharge on ground floor, which doesn't comply with RSC Technical Guidelines (Standard) , section 6.14.3.</p> <p>Location: Lift Shaft near Stair-1 in Annex Building</p>	<p>Provide a minimum 2-hr fire rated elevator shaft to separate it from stair enclosure. No discharge is accepted through elevator shaft. Seal all openings to maintain fire separations.</p>	<p>Within 3 Months</p>



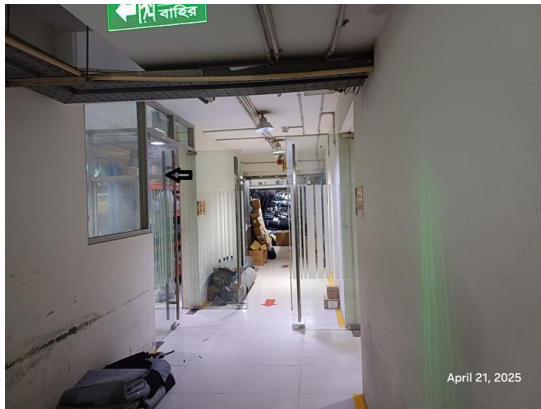
SI No.	Category	Findings	Required Action	Remediation Time Frame
F16	Fire Rated Construction	<p>Elevator shafts open directly into the production or office floor without proper fire separation due to unprotected opening.</p> <p>Location: Production area on all floors of Annex Building</p>	<p>Elevator 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.</p>	<p>Within 3 Months</p>



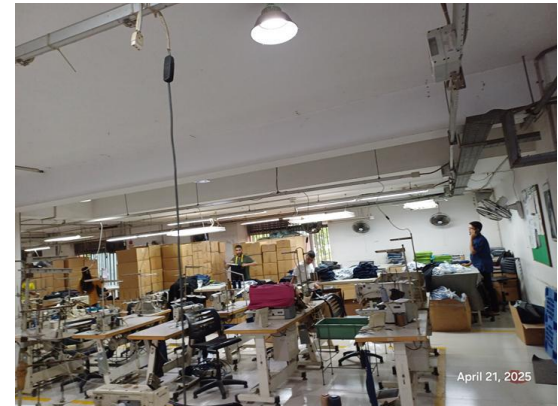
SI No.	Category	Findings	Required Action	Remediation Time Frame
F17	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed due to electrical cable riser and plumbing PVC Pipes.</p> <p>Location: DB room in all floors, Toilet zones in all floor and production & Storage area on 1st floor of Annex building</p>	<p>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 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)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F18	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy.</p> <p>Location: Store on 1st floor adjacent to production and sub-chemical store adjacent to printing section on ground floor of Annex Building.</p>	<p>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).</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F19	Fire Rated Construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p>Location: On 1st floor of Annex building</p>	<p>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.</p> <p>or,</p> <p>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.</p> <p>or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 Months



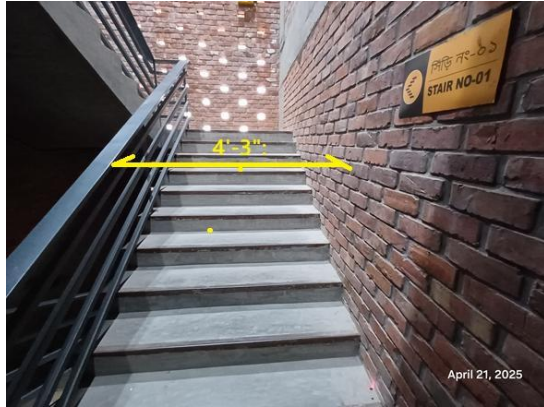
SI No.	Category	Findings	Required Action	Remediation Time Frame
F20	Means of Egress	<p>Common path of egress travel exceeds 30.0 m on 1st floor from storage area. Common path of egress travel exceeds 23.0 m on 2nd floor from staff dining area.</p> <p>Location: Annex Building.</p>	<p>Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 m from staff dining on 2nd floor and 30 m from storage area on 1st floor. The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft).</p> <p>Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F21	Means of Egress	<p>The exits are not remotely located from each other such that a single fire event could compromise both exits of the Printing section located on ground floor.</p> <p>Location: Annex Building</p>	<p>Provide additional exit or reconfigure the exit arrangement to ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6.</p>	<p>Within 3 Months</p>



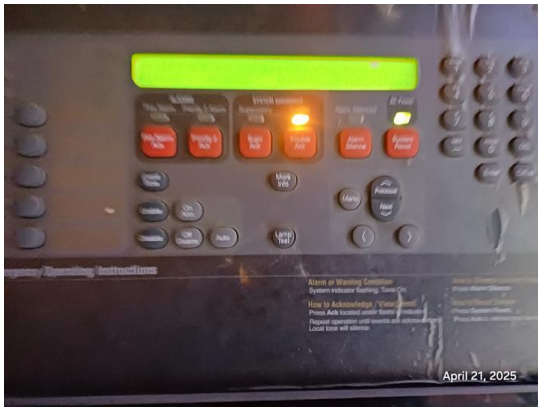
SI No.	Category	Findings	Required Action	Remediation Time Frame
F22	Means of Egress	<p>Each of the Stair clear width is found less than 60 in.</p> <p>Location: South-East Stair-1 and North-West Stair-2 in Annex Building</p>	<p>Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6</p>	<p>Within 3 Months</p>



SI No.	Category	Findings	Required Action	Remediation Time Frame
F23	Means of Egress	<p>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. Height of handrails are below standard.</p> <p>Location: South-East Stair-1 and North-West Stair-2 in Annex Building</p>	<p>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.).</p> <p>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.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F24	Fire Alarm & Detection System (FADS)	<p>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).</p> <p>Location: Annex Building</p> <p>Note- FACP is located at common area on ground floor of Annex Building. FACP serves 3 Storied Annex building, Single Storied Store Building-02 and 3 storied child care, medical and dining building.</p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>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.</p> <p>After installation/modification the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	<p>Design within 2 month and modification/ installation with 4 months</p>





SI No.	Category	Findings	Required Action	Remediation Time Frame
F-25	Inspection, Testing & Maintenance (Fire detection system)	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-26	Fire Suppression System (SUPS)	The travel distance between portable fire extinguishers were found to be more than 30 m (100 ft). Location: 2nd Floor Few fire extinguishers are found obstructed on 1st floor.	Portable fire extinguishers shall be installed throughout all new, interim, and existing facilities in accordance with BNBC 2020 and NFPA 10. Extinguishers shall be placed so that maximum travel distance to the nearest unit shall not exceed 30 m (100 ft). Keep all fire extinguishers accessible.	Within 1 Month



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-27	Inspection, Testing & Maintenance (Portable fire extinguishers)	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-28	Means of Egress (Egress Lighting)	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All Floors	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



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-29	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All floors of Annex Building</p>	<p>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.</p>	Within 1 Month
				
F-30	Egress Lighting ITM	<p>Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).</p>	<p>Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.</p>	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-31	Fire Rated Construction	<p>Gymnasium (E4 occupancy) is not separated from production (G2 occupancy) with fire rated assemblies.</p> <p>Location: 1st Floor of Annex Building</p>	<p>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.</p> <p>Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-32	Fire Rated Construction	<p>Cooking Operation on kitchen area doesn't meet section 5.10 of RSC Technical Guideline (Standard)</p> <p>Location: 2nd Floor of Annex Building</p>	<p>Cooking operations that produce grease laden vapors shall be prohibited in factory premises.</p> <p>If cooking operation is required, ensure ventilation and a fire protection system is provided in accordance with NFPA 96.</p>	Within 1 Month



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-33	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: 2nd Floor of Annex Building</p>	<p>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 .</p>	<p>Within 1 Month</p>



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-34	Means of Egress (Evacuation plan)	<p>Fire evacuation maps is not posted at the entrance of all exit stair.</p> <p>Location: 2nd Floor of Annex Building</p>	<p>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.</p>	<p>Within 1 Month</p>

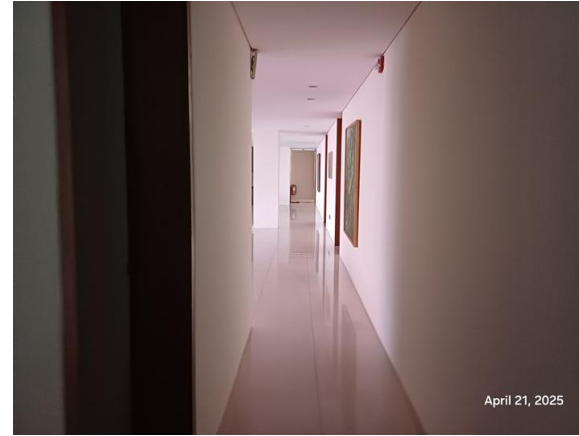


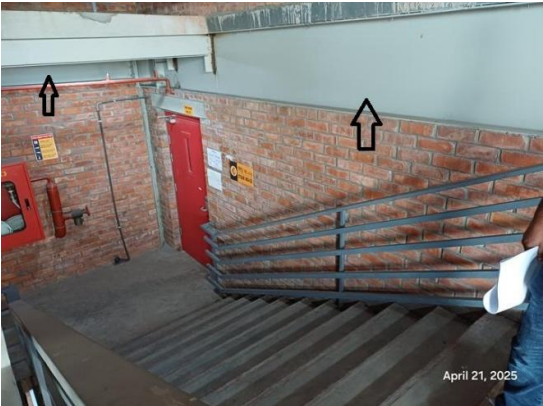





Table-3: Building-3: Store Building-1; 5 Storied Steel building with peaked shed on roof

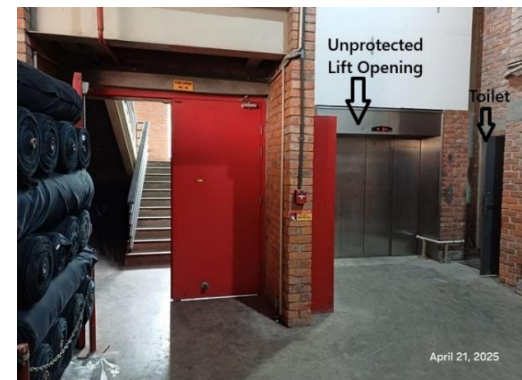
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-35	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: Building-3: Store Building-01</p> <p>Non-compliance reason: (i) Unsealed openings are found fire rated barrier construction; (ii) Proper certification is not available for fire rated doors and door accessories installed in the factory. 19mm gaps at bottom of fire door, clarification of listing mark on one leaf, broken panic bar & (iii) Steel Beam and Columns in fire barrier which does not provide required fire rating.</p>	<p>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.</p> <p>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.</p> <p>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).</p>	Within 3 Months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 <p>April 21, 2025</p>	 <p>April 21, 2025</p>	 <p>April 21, 2025</p>
		 <p>April 21, 2025</p>	 <p>April 21, 2025</p>	 <p>April 21, 2025</p>

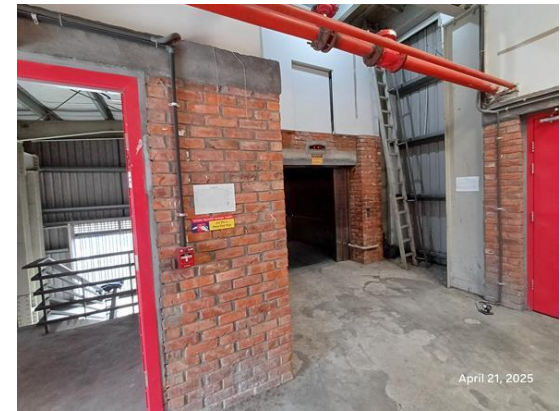
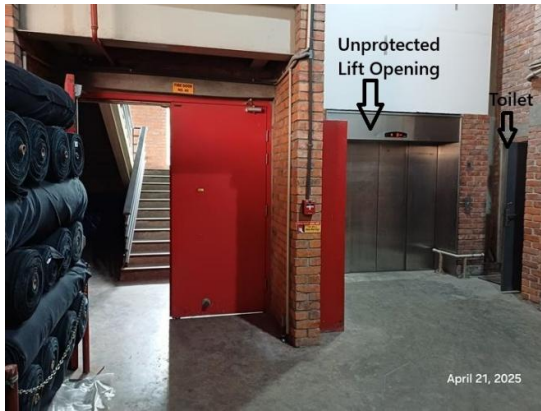
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-36	Means of Egress	<p>Electrical DB and Electrical cable/ BBT raceway located on ground floor the exit stair discharge.</p> <p>Location(s): south-west stair-1 on ground floor of Store Building-01</p>	<p>Remove and re-locate all Electrical panels/Toilet from exit stair enclosures.</p> <p>Or,</p> <p>Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p>	Within 3 Months



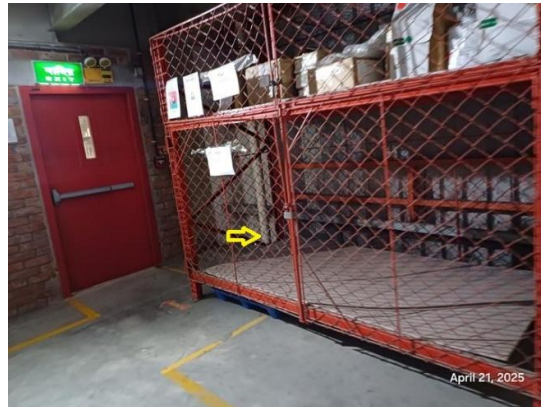
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-37	Means of Egress	<p>Exit stair-1 (South-East) terminates the occupants inside the building which does not comply with section 6.17 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>Location: South-West Exit Stair-1 Discharge on ground floor of Store Building-01.</p> <p>Non-compliance reason: On ground floor, Unsealed openings are found (i) From Storage area; (ii) From Lift Shaft and Toilet zones. Loading Unloading area on ground floor.</p>	<p>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.</p>	<p>Within 3 Months</p>



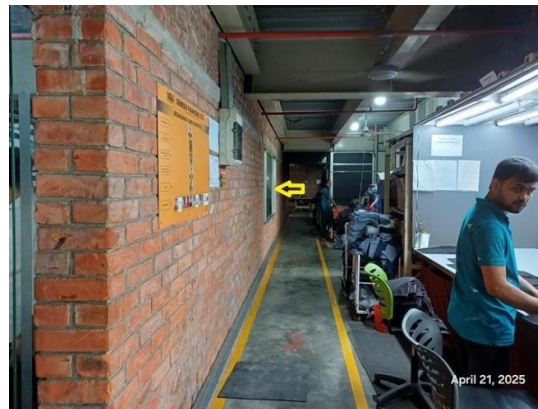
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-38	Fire Rated Construction	<p>Elevator shafts open directly into the Store, production or office floor without proper fire separation due to unprotected opening.</p> <p>Location: Storage and production area on ground, 1st and 4th floor of Store Building-01</p>	<p>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.</p>	<p>Within 3 Months</p>



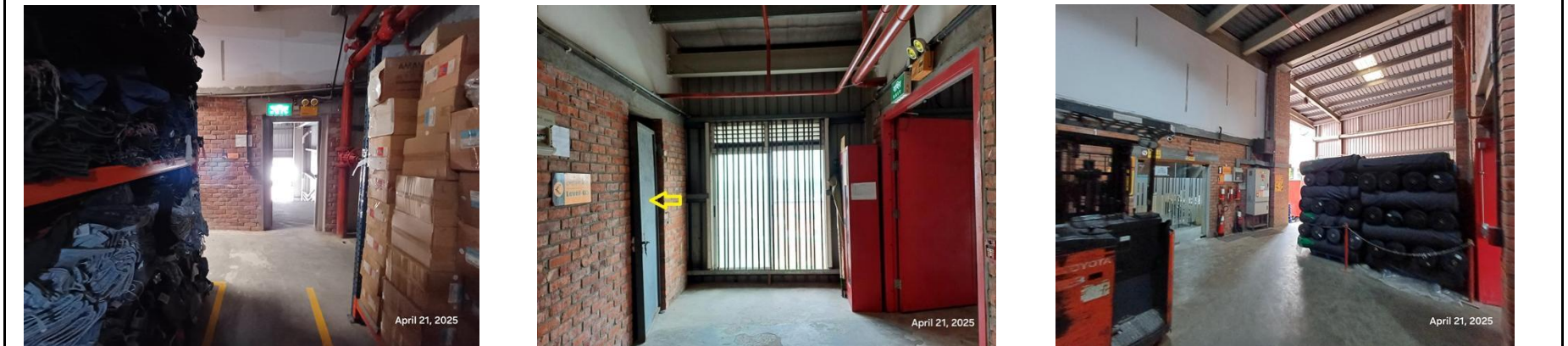
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-39	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed due to plumbing PVC Pipes.</p> <p>Location: All Floor of Store Building</p>	<p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 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)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-40	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy.</p> <p>Location: Store on 1st & 3rd floor adjacent to inspection & office area respectively in Store Building-01.</p>	<p>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).</p>	Within 3 Months



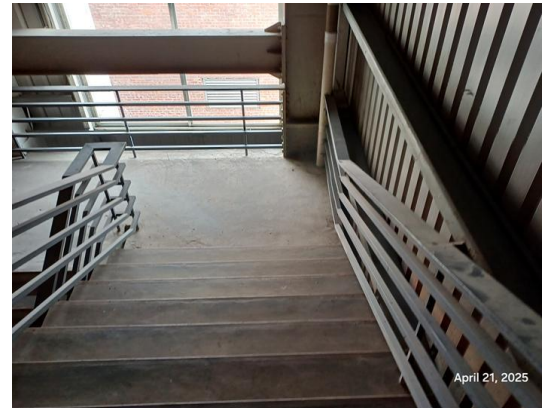
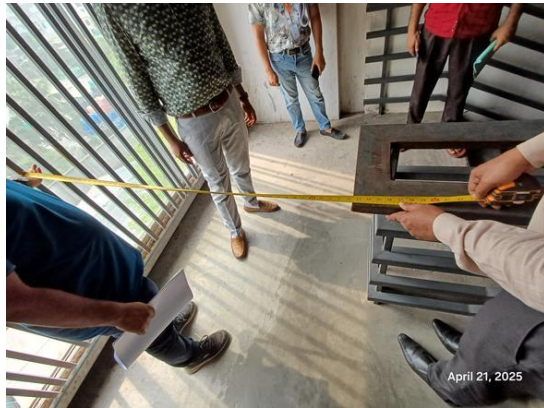
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-41	Means of Egress	Storage areas discharges directly into the south-east exit stair-2 enclosure in all floors and into the south-west stair-1 enclosure on ground and 4th floor.	<p>Openings from exit enclosure to Storage areas/ basements/ 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 1.5 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.</p> <p>Or, Provide Sprinkler System in accordance to NFPA-13.</p>	Within 3 Months




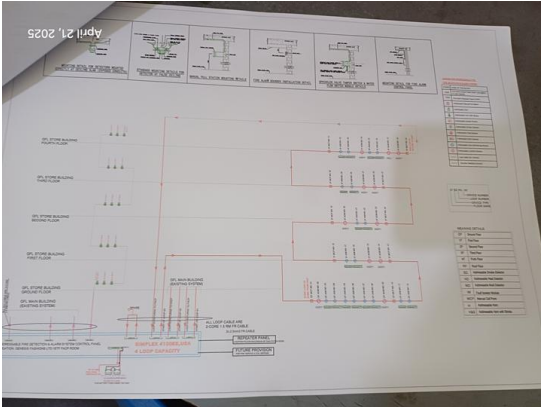

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-42	Means of Egress	<p>The exterior of the south-east stair-2 is enclosed by nonrated walls or unprotected openings, which are exposed to other parts of the building at an angle of less than 180 degrees (3.14 rad).</p> <p>Location: Store Building-01</p>	<p>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. in accordance with section 6.14.7 of RSC Technical Guidelines (Standard)¹ V1.0. Openings within such exterior walls shall be protected by opening protectives having a fire protection rating of not less than ¾ hr.</p>	Within 3 Months

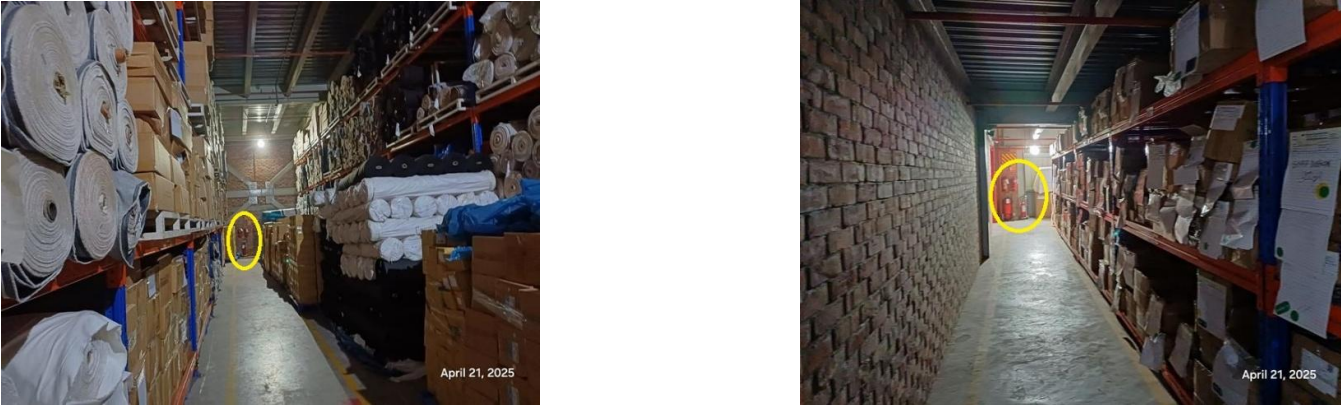


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-43	Means of Egress	<p>Each of the Stair clear width is found greater than 60 in. But, width of intermediate landings in Stair-1 and Stair-2 is found 52 in. and 44 in. respectively.</p> <p>Location: South-West Stair-1 and South-East Stair-2 in Store Building-01</p>	<p>Stairs shall have a minimum clear width of 60 in. for all industrial and storage occupancies as per RSC Technical Guideline (Standard) section of 6.5.6</p> <p>Landings with same width as the stair clear width shall be provided at each level and at intermediate landings as per RSC Technical Guideline (Standard) section of 6.9.2.2.</p>	Within 3 Months

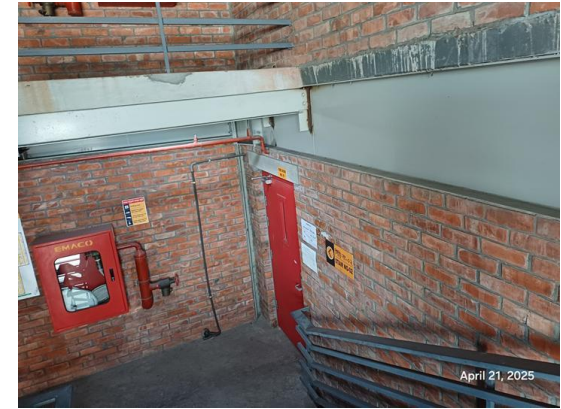


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-44	Fire Alarm & Detection System (FADS)	<p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: Store Building-01</p> <p>Note- An automatic fire alarm and detection system (Brand-SIMPLEX, Model: 4010ES) has been found installed. FACP is located at FACP room on 1st floor of Security Building. During the visit, FACP is active and in normal condition. All floors of 5 storied storage building are not covered by detectors as floors are covered by sprinkler system.</p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>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.</p> <p>After installation/modification the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design within 2 month and modification/ installation with 4 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		  		
F-45	Inspection, Testing & Maintenance (Fire detection system)	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.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-46	Fire Suppression System (SUFS)	<p>Fire extinguishers are found at several areas but placed on floors.</p> <p>Location: Ground, 3rd & 4th floor of Store Building-01</p>	<p>The bottom of the fire extinguisher and the floor be less than 4 in.(102 mm).As per NFPA 10 section 6.1.3.8.3</p> <p>Fire extinguishers having a gross weight not exceeding 18.14 kg (40 lb.) shall be installed so that the top of the fire extinguisher is not more than 1.53 m (5 ft) above the floor (NFPA 10 6.1.3.8) to meet section 5.6 of RSC Technical Guideline (Standard)</p>	Within 1 Month
				
F-47	Inspection, Testing & Maintenance (Portable fire extinguishers)	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

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-48	Fire Suppression System (SUPS)	<p>The factory has installed a standpipe & Hose system that requires a detailed review to confirm compliance with NFPA 14,20, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: 5 Storied Store Building-01</p>	<p>Submit the standpipe system drawing to RSC for review.</p> <p>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.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>	<p>Design within 2 month and modification/ installation with 4 months</p>



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-49	Fire Suppression System (SUPS)	<p>Sprinkler system is not mandatory for the building based on height and type of construction but the system installed for the building along with standpipe system in lieu of automatic detection system. Both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: 5 Storied Store Building-01</p>	<p>Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, RSC Technical guideline (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.</p> <p>(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.)</p>	<p>Design within 2 month and modification/ installation with 4 months</p>

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 <p>April 21, 2025</p>	 <p>April 21, 2025</p>	 <p>April 21, 2025</p>
		 <p>April 21, 2025</p>	 <p>April 21, 2025</p>	 <p>April 21, 2025</p>

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-50	Inspection, Testing & Maintenance (Fire Pump)	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump 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-51	Inspection, Testing & Maintenance (Sprinkler system)	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	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-52	Inspection, Testing & Maintenance (Standpipe system)	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.s.	Within 1 Month after installation.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-53	Fire Rated Construction (Passive Fire Protection of Steel Structure)	<p>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.</p> <p>Location: 5 Storied Steel Store Building-01</p>	<p>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 require fire rating.</p> <p>Submit the design philosophy along with the required documents to RSC for review the required construction type.</p> <p>Once the design philosophy is reviewed, provide fire ratings of structural members.</p>	Within 6 Months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-54	Fire Rated Construction (Fire Separation)	<p>A non-rated connecting corridor has been constructed between two buildings which is not fire separated from the adjacent building due to damaged fire door.</p> <p>Location: 1st Floor of Storage Building-01</p>	<p>Separate the buildings with a minimum 2-hour fire-rated construction on both sides of the connecting corridor. Opening protection extending up to 10 feet beyond the connecting corridor shall meet section 4.6 of RSC Technical Guidelines (Standard)¹ V1.0 .</p>	Within 3 Months



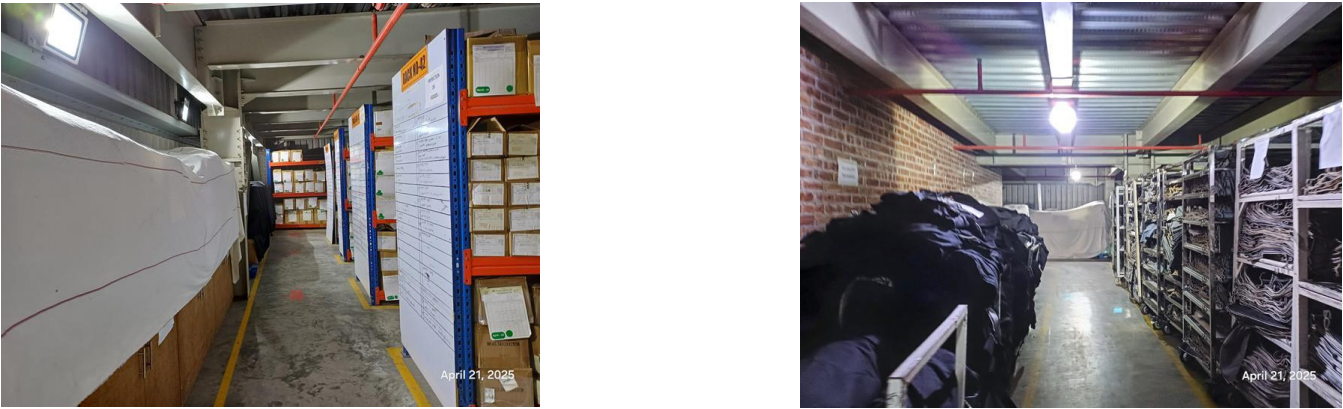
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-55	Means of Egress (Egress Lighting)	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: 2nd, 3rd & 4th Floor of store Building 01</p>	<p>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.</p>	Within 3 Months



April 21, 2025



April 21, 2025

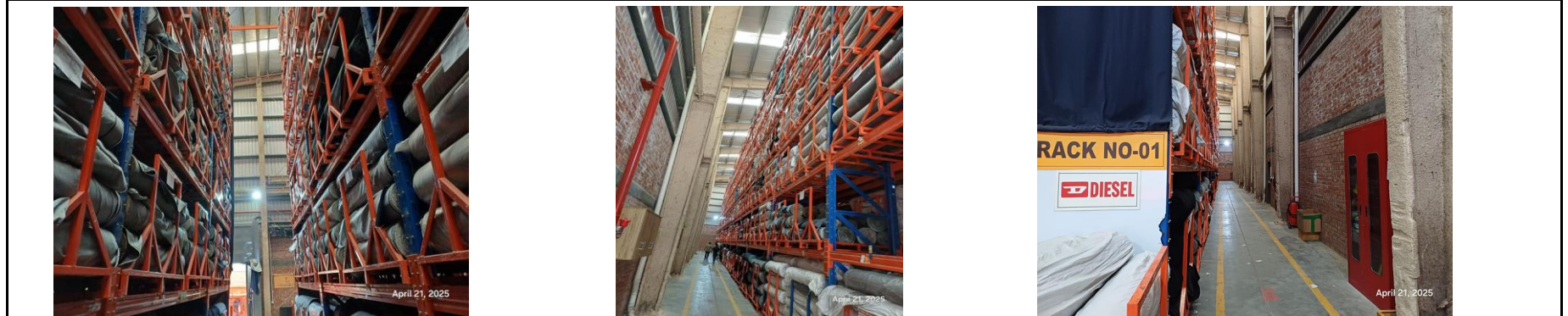
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-56	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All floors of of store Building-01</p>	Illuminated directional 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-57	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-58	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: All Floor of Store Building-01</p>	<p>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 .</p>	<p>Within 1 Month</p>

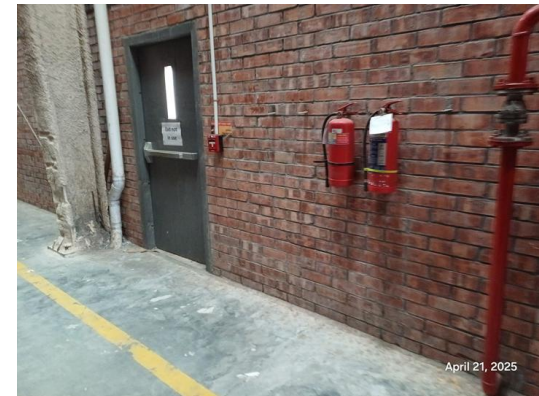


Table-4: Building-4: Store Building-2 (Single Storied Steel Structure)

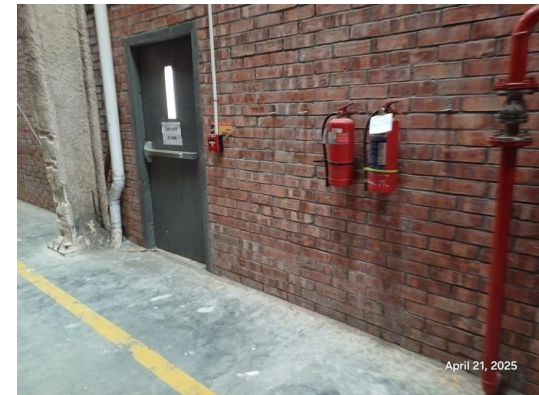
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-59	Fire Rated Construction (Passive Fire Protection of Steel Structure)	<p>The main structural element of the new building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p> <p>Location: Single Storied Storage Building-02</p> <p>Note- Peak Height- 47'-2"; Eave Height-41'-2" and Avg Height- 44.17 ft/ 13.46m, factory has provided cementitious spray to steel columns of shed but credible documents are not found during the visit.</p>	<p>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.</p> <p>Submit the design philosophy along with the required documents to RSC for review the required construction type.</p> <p>Once the design philosophy is reviewed, provide fire ratings of structural members.</p>	Within 6 Months




SI No.	Category	Findings	Required Action	Remediation Time Frame
F-60	Means of Egress (Exit Adequacy)	<p>Common path of egress travel exceeds 30.0m.</p> <p>Location: Single Storied Store Building-02</p> <p>Occupancy/Process: H2</p> <p>Available Common Path: 43.90m</p>	<p>Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30.0 m.</p> <p>The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft).</p> <p>Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p>	Within 3 Months



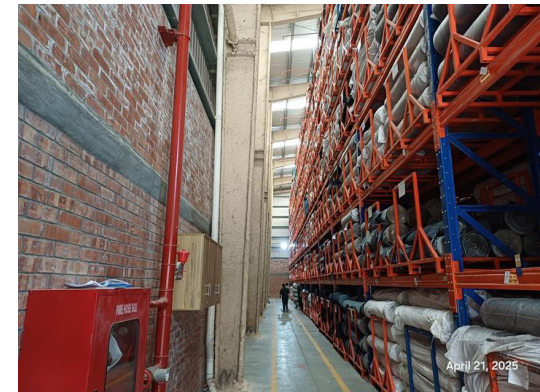
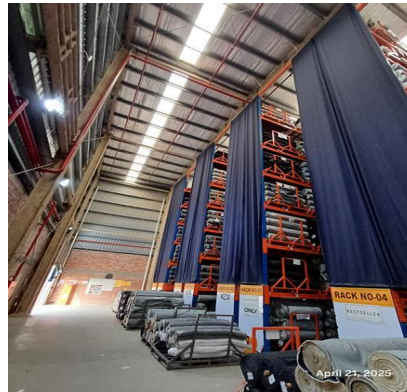
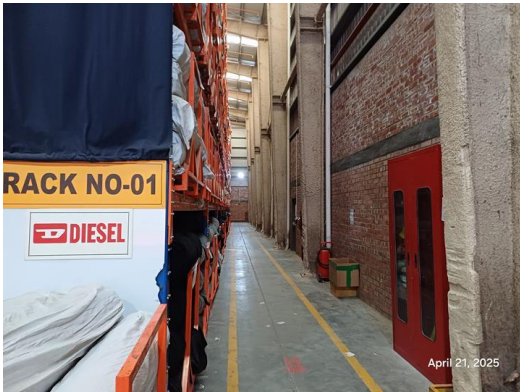
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-61	Means of Egress (Exit Adequacy)	<p>A single means of exit has been provided on ground floor of store building-02. Another door is found which declared as not an exit.</p> <p>Location: Single Storied Store Building-02</p> <p>Occupant Load: 30 Travel distance: 70.0m</p>	<p>The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard), section 6.6.2.</p> <p>Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6. Ensure that travel distance does not exceed 38.0m or for fully sprinklered building travel distance does not exceed 45.0m.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-62	Fire Alarm & Detection system	<p>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).</p> <p>Location: Single Storied Store Building-02</p> <p>Note- An automatic fire alarm and detection system (Brand-SIMPLEX, Model: 4100ES) has been found installed in building -4, Single Storied Store Building-02. FACP is located at common area on ground floor of Annex Building. FACP serves 3 Storied Annex building, Single Storied Store Building-02 and 3 storied child care, medical and dining building. During the visit, FACP is in active condition. Ground floor of single storied storage building-02 is not covered by detectors as floor is covered by sprinkler system.</p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>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.</p> <p>After installation/modification the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	<p>Design within 2 Months and modification/ installation with 4 Months</p>

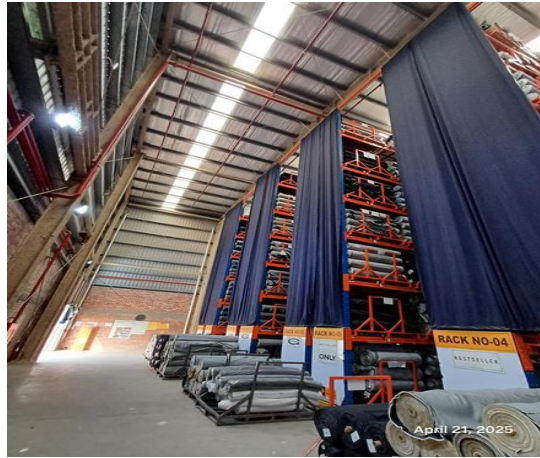
SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-63	Fire Alarm & Detection system (ITM of FADS)	<p>Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: Single Storied Store Building-02</p>	<p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site</p>	<p>Within 1 Month (after installation)</p>

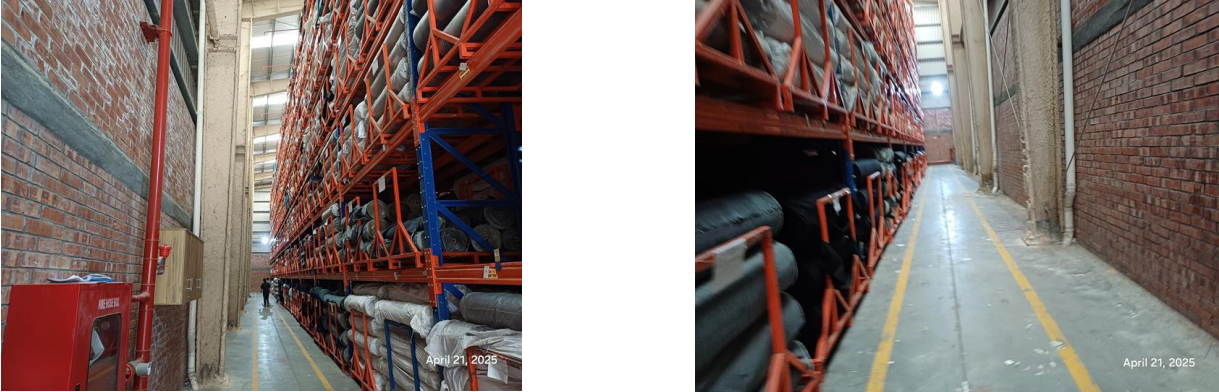
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-64	Sprinkler system Design & Installation	<p>Sprinkler system is not mandatory for the building based on height and type of construction but the system installed for the building along with standpipe system in lieu of automatic detection system. Both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: Single Storied Store Building-02</p>	<p>Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, RSC Technical guideline (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.</p> <p>(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.)</p>	Design within 2 month and modification/ installation with 4 months






SI No.	Category	Findings	Required Action	Remediation Time Frame
F-65	Inspection, Testing & Maintenance (Fire Pump)	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump 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-66	Inspection, Testing & Maintenance (Sprinkler system)	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	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.

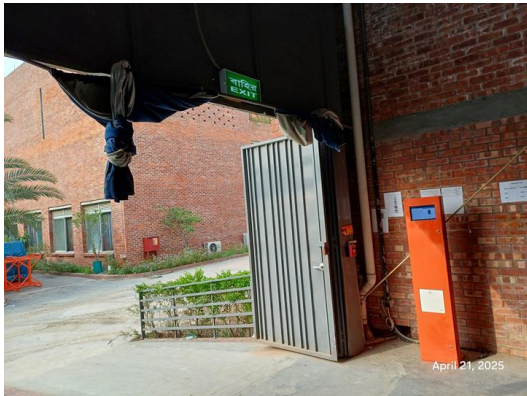

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-67	Means of Egress	<p>Aisles is found missing on several locations throughout the single storied storage shed.</p> <p>Location: Ground floor of single storied storage building-02</p>	<p>Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.</p>	<p>Within 1 Month</p>



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-68	Fire Suppression System (SUFS)	<p>Portable fire extinguishers are not placed maintaining maximum travel distance for the occupant on ground floor.</p> <p>Location: Single storied Storage Building-02</p>	<p>Portable fire extinguishers shall be installed throughout all new, interim, and existing facilities in accordance with BNBC 2020 and NFPA 10. Extinguishers shall be placed so that maximum travel distance to the nearest unit shall not exceed 30 m (100 ft).</p>	Within 3 Months
				
F-69	Fire Suppression System (SUFS)	<p>Fire extinguishers were found at several areas but placed on floors.</p> <p>Location: Single storied Storage Building-02</p>	<p>In no case shall the clearance between the bottom of the hand portable fire extinguisher and the floor be less than 4 in. (102 mm). As per NFPA 10 section 6.1.3.8.3</p>	Within 1 Month

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-70	ITM of Fire Extinguishers	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 onsite, in accordance with NFPA 10 and The RSC Technical Guidelines (Standard).	Within 1 Month

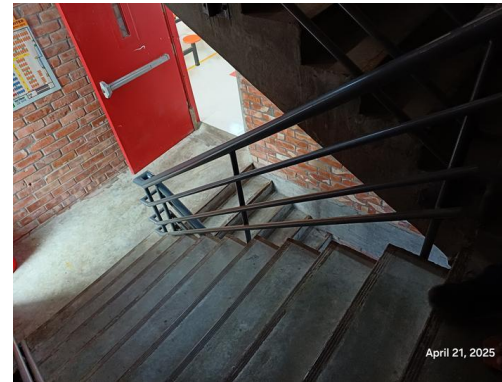
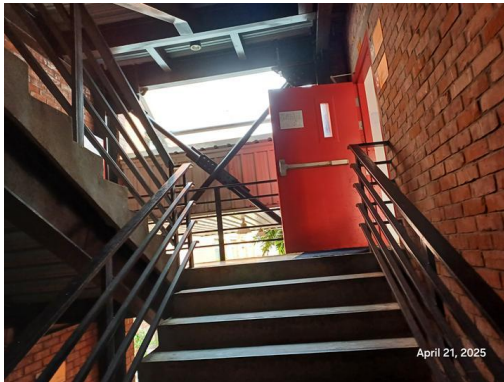
SI No.	Category	Findings	Required Action	Remediation Time Frame	
F-71	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: Single storied Storage Building-02</p>	<p>Illuminated 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.</p>	Within 1 Month	
					
F-72	Inspection, Testing & Maintenance (Fire)	<p>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..</p>	<p>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.</p>	Within 1 Month	

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-73	Means of Egress (Exit Adequacy)	Doors are swing out over Ramps. Location: Single storied Storage Building-02	A landing shall be provided on both sides of doors used in the means of egress to facilitate uninterrupted egress of occupants. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.	Within 3 Months
				
F-74	Means of Egress (Exit Sign, Stair sign & occupant load sign)	Building does not have occupant load signs at required locations on all floors. Location: Single storied Storage Building-02	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

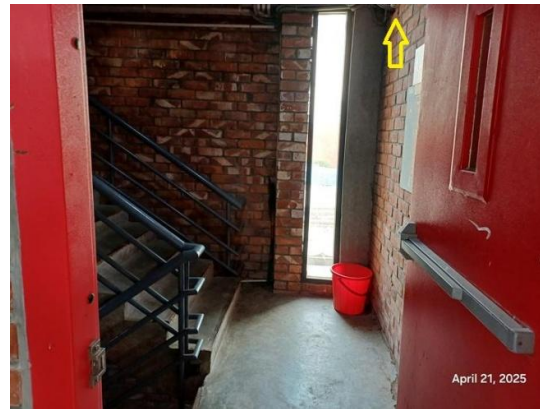
SI No.	Category	Findings	Required Action	Remediation Time Frame
				

**Table-3: Building-5: Medical, Childcare & Dining Building, (3 Storied Steel building with peaked shed on roof)
& Common Observation for all buildings.**

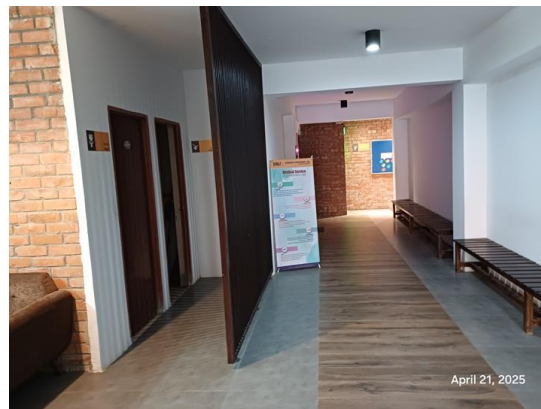
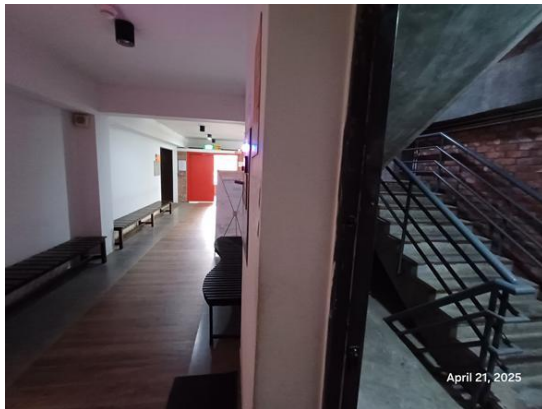
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-75	Means of Egress (Exit stair openings)	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: 3 Storied Daycare, Medical & Dining Building</p> <p>Non-compliance reason: (i) Proper certification is not available for fire rated doors</p>	<p>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 for building with 3 or fewer stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>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.</p> <p>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).</p>	Within 3 Months




SI No.	Category	Findings	Required Action	Remediation Time Frame
F-76	Means of Egress	<p>Unsealed penetrations and openings are located in exit stair enclosures. Electrical cable/ BBT raceway passing through the exit enclosure.</p> <p>Location: Mid-East stair-1 of 3 Storied Daycare, Medical & Dining Building</p>	<p>No other penetration into and through the exit enclosure except for fire alarm equipment electrical raceway, required exit doors, sprinkler piping, standpipes, and electrical conduit serving the exit enclosure is permitted in accordance with section 6.14.4 of RSC Technical Guidelines (Standard)¹ V1.0. So, relocate the electrical wires/raceways to somewhere else avoiding the exit enclosure, and seal the created unprotected openings with a minimum of 1.5 hours listed/certified fire-rated materials. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating. Or seal the penetration by 2-hr masonry construction.</p>	Within 3 Months



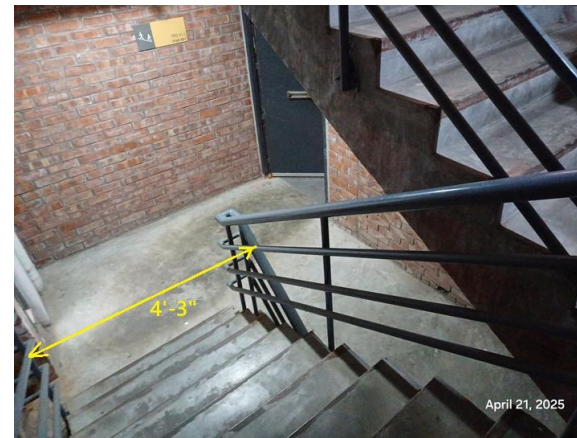
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-77	Means of Egress	<p>Exit stair-1 (Mid-East) terminates the occupants inside the building which does not comply with section 6.17 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>Location: Mid-East stair-1 discharge on ground floor of 3 Storied Daycare, Medical & Dining Building</p> <p>Non-compliance reason: On ground floor, Unsealed openings are found from medical, daycare and toilet zone.</p>	<p>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.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-78	Fire Rated Construction (Passive Fire Protection of Steel Structure)	<p>The main structural element (on Ground floor partial roof area and 2nd floor Roof) of the interim building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p> <p>Location: 3 Storied Daycare, Medical & Dining Building</p>	<p>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 require fire rating.</p> <p>Submit the design philosophy along with the required documents to RSC for review the required construction type.</p> <p>Once the design philosophy is reviewed, provide fire ratings of structural members.</p>	Within 6 Months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-79	Fire Rated Construction	The required fire separation distance for 3 Storied Daycare, Medical & Dining Building does not comply with the requirements of BNBC 2020.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Section 2.4.1.3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Table 3.3.1 (a). Or, Relocate other occupancy by maintaining proximity distance.	Within 6 Months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-80	Means of Egress (Exit Adequacy)	<p>Each of the two Stairs clear width is found less than 79 in. (Width of Stair-1 and stair-2 is 4'-3" and 4'-5" respectively.</p> <p>Location: Mid-South Stair-1 and North-West Stair-2 in 3 Storied Daycare, Medical & Dining Building</p>	<p>Stairs shall have a minimum clear width of 79 in. for all assembly occupancies as per RSC Technical Guideline (Standard) section of 6.5.6</p> <p>Landings with same width as the stair clear width shall be provided at each level and at intermediate landings as per RSC Technical Guideline (Standard) section of 6.9.2.2.</p>	Within 3 Months

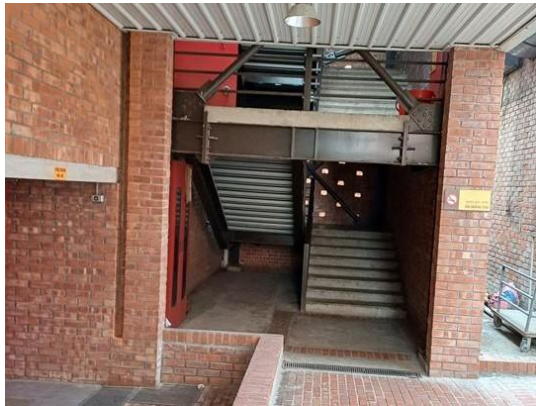


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-81	Fire Alarm & Detection System (FADS)	<p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: 3 Storied Daycare, Medical & Dining Building</p> <p>Note- An automatic fire alarm and detection system (Brand-SIMPLEX, Model: 4100ES) has been found installed in building -5, 3 Storied Daycare, Medical & Dining Building. FACP is located at common area on ground floor of Annex Building. FACP serves 3 Storied Annex building, Single Storied Store Building-02 and 3 storied child care, medical and dining building. During the visit, FACP is in active condition. All floors of 3 Storied Daycare, Medical & Dining Building is covered by detectors.</p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>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.</p> <p>After installation/modification the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design within 2 month and modification/ installation with 4 months

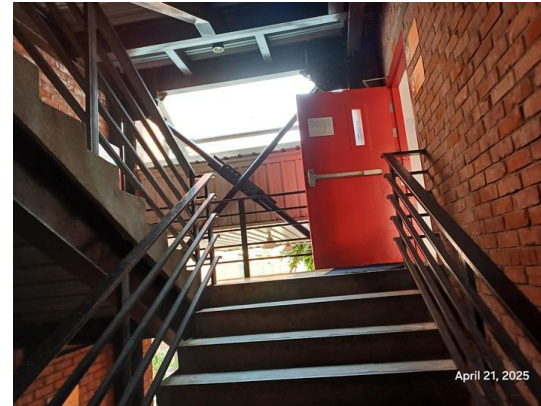
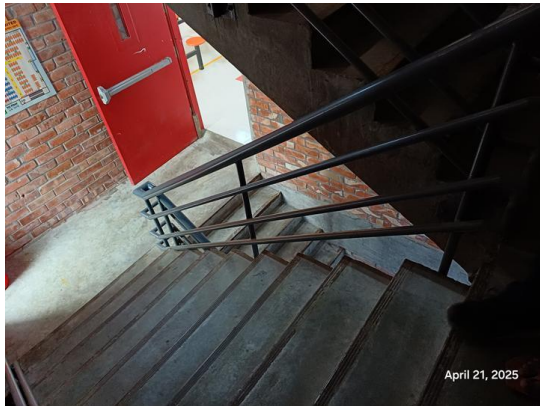
SI No.	Category	Findings	Required Action	Remediation Time Frame
				
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-82	Inspection, Testing & Maintenance (Fire detection system)	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.	Within 1 Month after installation.
F-83	Inspection, Testing & Maintenance (Portable fire extinguishers)	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.	Within 1 Month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-84	Means of Egress	<p>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.</p> <p>Location: Mid-South Stair-1 and North-West Stair-2 in 3 Storied Daycare, Medical & Dining Building</p>	<p>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.).</p> <p>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.</p>	Within 3 Months





SI No.	Category	Findings	Required Action	Remediation Time Frame
F-85	Means of Egress	<p>Doors are swing out over stairs landing.</p> <p>Location: Mid-South Stair-1 and North-West Stair-2 in 3 Storied Daycare, Medical & Dining Building</p>	<p>A landing shall be provided on both sides of doors used in the means of egress to facilitate uninterrupted egress of occupants. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.</p>	Within 3 Months

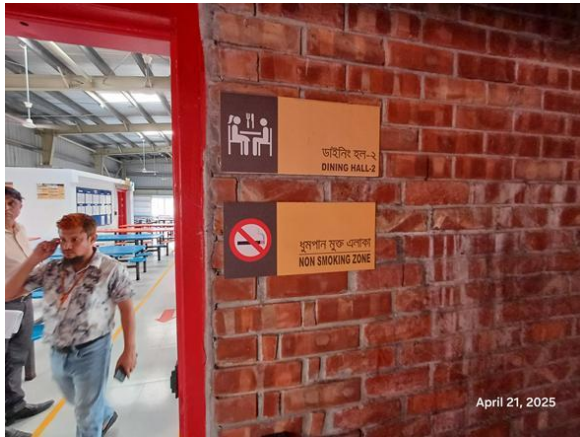


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-86	Means of Egress (Egress Lighting)	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: All Floors of 3 Storied Daycare, Medical & Dining Building</p>	<p>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.</p>	Within 3 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-87	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All Floors of 3 Storied Daycare, Medical & Dining Building</p>	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-88	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-89	Means of Egress (Exit Sign, Stair sign & occupant load sign)	<p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: All Floors of 3 Storied Daycare, Medical & Dining Building</p>	Post the occupant load for every assembly and production floor 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



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-90	Licenses and certificates	Fire drills are not conducted at 3 months interval for first two years under a fire safety director in 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 2006 Part 4 Appendix A.	Within 1 Month

