

INITIAL FIRE SAFETY INSPECTION REPORT

FAKIR KNITWEARS LTD. (Extension - 2)

RSC ID: 25930

KAYEMPUR, FATULLAH, NARAYANGANJ

Co-ordinate: 23.63937283788, 90.500444300

Other Factories: FAKIR KNITWEARS LTD.[9487]; FAKIR KNITWEARS LTD. (Extension) [24608]; Fakir Eco-Knitwears Ltd [24934]



Inspected By: A N Faisal Ahmed & Md. Rakibul Islam

Date: 22 December, 2024

Fire Safety Inspection Report

FAKIR KNITWEARS LTD. (Extension - 2)

Introduction:

FAKIR KNITWEARS LTD. (Extension-2) complex was surveyed for fire safety on **22-Dec-2024** 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 4 (Four) different RSC ID's. On RSC ID: 25930, 3 (three) structures has been covered . Description has given below:

SI No	Building Name & Description	Construction History	Period
1	Building-12: All Over Printing (G+M+2+Part 3) RCC building with partial steel roof. (RCC + Steel Roof) Total Approx Area: 148779 Sft	Construction Start: March, 2020 Construction End: Jan, 2024 Date of first Operation: May, 2024 Building Approval: LGED Fatullah Narayongonj, Date: 5 Feb, 2020.	Interim
2	Building-13: New Printing (G+4) 5 Storied RCC Building. Total Approx Area: 119996 sft	Construction Start: May, 2019 Construction End: Mar, 2024 Date of first Operation: April, 2024 Building Approval: LGED Fatullah Narayongonj, Date: 4 May, 2019.	Interim
3	Shed 21 : New Boiler Shed Single Storied RCC building with steel roof. Total Approx Area: 2500 sft	Construction Start: October, 2023 Construction End: May, 2024 Date of first Operation: May, 2024 Building Approval: LGED Fatullah Narayongonj, Date: 1 August, 2023.	New

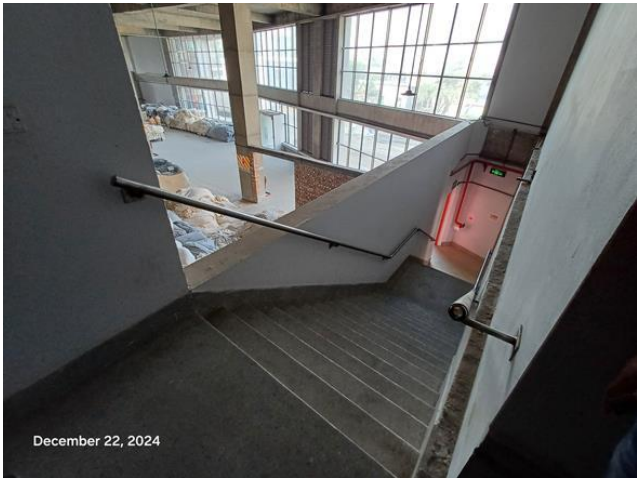
Factory Address: KAYEMPUR, FATULLAH, NARAYANGANJ

Findings & Recommendations :

Table 1 & 2 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.

Table-1: Building-12: All Over Printing

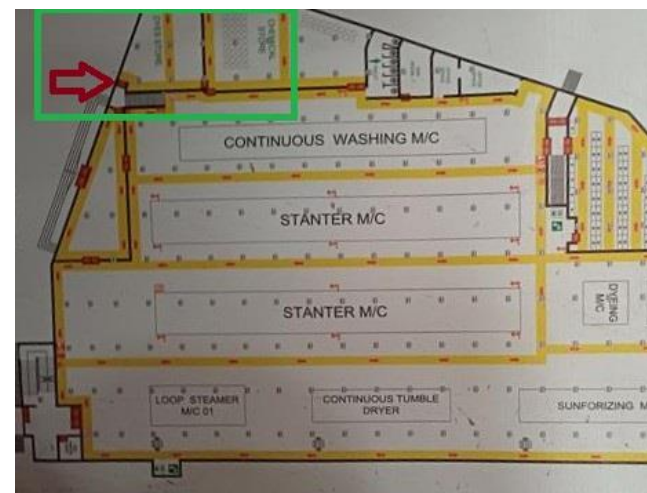
Sl No.	Category	Findings	Required Action	Remediation Time Frame
F1	Means of egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction (N-E Exit enclosure-2 on Ground floor, N-W Exit enclosure-1 on 2nd floor and S-W exit enclosure-4 on 2nd floor). Penetrations through ceiling is also observed at 1st floor S-E Staircase-3. Fire rated doors are not interfaced yet with FACP (Installation on-going). Location: Building-12	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr. construction and 60 minutes for 1-hr construction. Ensure that the fire-rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire-rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
				
				
				

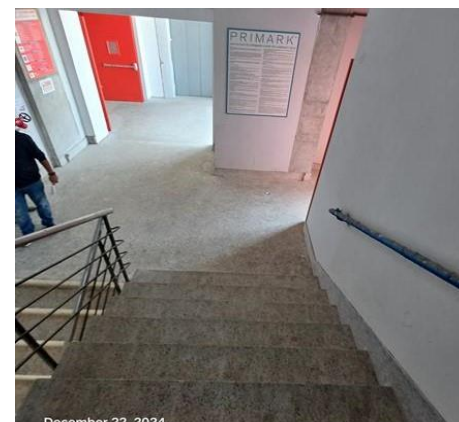
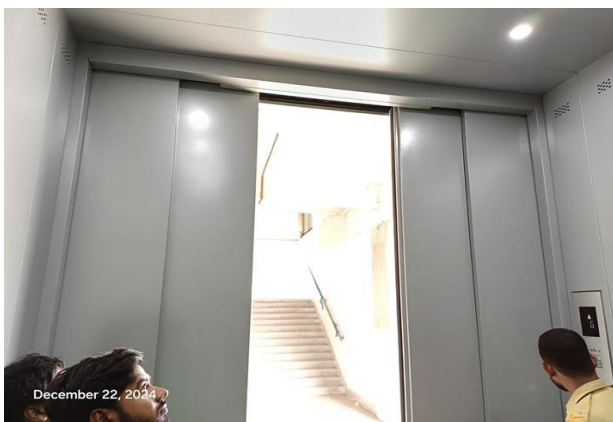
SI No.	Category	Findings	Required Action	Remediation Time Frame
F2	Fire Rated Construction	Penetrations through floor/ceiling assemblies (Both electrical riser and plumbing pipes) are found unsealed. Location(s): Building-12, 1st & Mezzanine Floor	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design.	Within 3 months

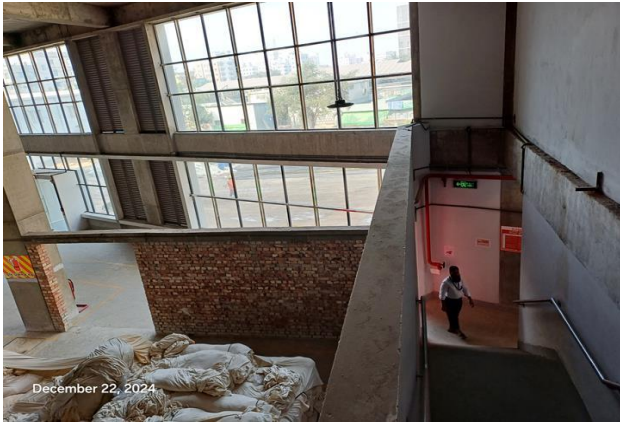


SI No.	Category	Findings	Required Action	Remediation Time Frame
F3	Means of egress	Ground Floor fabrics storage room and chemical store discharges directly into South-east exit enclosure-3 and North-east exit enclosure-2 on ground floor.	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months

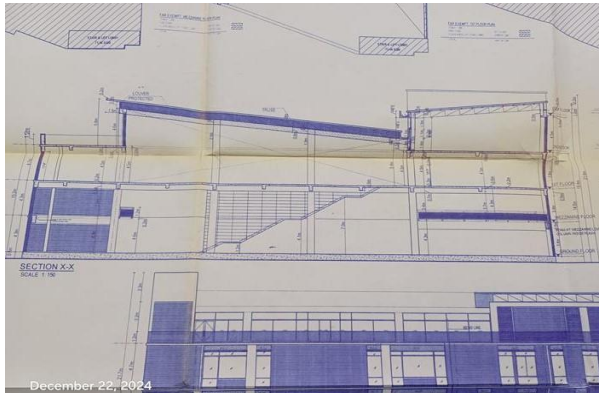


SI No.	Category	Findings	Required Action	Remediation Time Frame
F4	Means of Egress	Elevator shafts are directly open into North-west exit stair enclosure-1 and South-west exit enclosure-4.	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure. So, rearrange the facility to provide separate enclosure for lifts. If not possible anyway then provide a minimum 2-hr fire- rated elevator shaft with listed fire rated lift landing door to separate from each floor level.)	Within 3 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F5	Means of Egress	North-East Exit Stair-2 discharge the occupant inside the building on the ground floor.	A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all of the following are met: (1) Automatic sprinkler protection is provided throughout the level of exit discharge or portion of the level of discharge where separated from non sprinklered portions of the floor by fire barriers with the same fire resistance rating as the exit enclosure. (2) The interior discharge is not through a storage or hazardous occupancy. (3) The entire area of the level of exit discharge is separated from areas below by construction having a fire resistance rating not less than that required for the exit enclosure. (4) The way to the exterior shall be free and unobstructed and shall be readily visible and identifiable from the point of discharge of the interior exit.	Within 3 months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F6	Fire Rated Construction	The main structural elements of the building (2nd floor roof and partially 1st floor roof) are constructed by steel which are non-rated and are found in exposed condition without any fire protection.	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. Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the passive fire protection system.	Design Review within 2 month and installation within 4 months.



SI No.	Category	Findings	Required Action	Remediation Time Frame
F7	Fire Rated Construction	Opening in exterior wall is within 1.50m on ground and 1st floor and there is not horizontal projection for flame barrier.	Openings in the exterior wall in two consecutive floors lying within 1.5 m laterally shall be separated with a flame barrier projecting at least 75 cm from the external face of the exterior wall. The flame barrier shall have a fire resistance rating of not less than three-fourths hour. as per BNBC-2006 3.1.7.2 Exterior Walls	Within 3 months
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F8	Fire Rated Construction	Chemical storage room is not properly separated by fire-rated construction from surrounding occupancy. Location: On ground floor of building-12. Rooms used for subchemical storage is also not separated by fire rated construction from printing section on 1st floor .	Either separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations for 4-hrs. Opening is not permitted for 4- hrs fire rated separation. Keep 16-points SDS of all chemicals in the storage area. Note: Construction type shall be Type-1 and separation shall be as per Table 3.2.1 of BNBC-2006. Or, Limit the chemical contain less than the exempt quantities as specified in Table 3.2.7 BNBC 2006.	Within 3 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F9	Fire Rated Construction	The compressor room is not separated by fire rated construction from surrounding occupancy. Location(s): Building-12, 2nd floor	Any room or space housing boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building.	Within 3 months
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F10	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction from printing and dying section on the ground floor of 3 Storied Building-12.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 0.75 hr. (45 Minutes) fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2). -In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-11	Fire Alarm & Detection system	Automatic fire alarm and detection system is being installed which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: Building-12	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings 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. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design Review within 2 months and installation/modification within 4 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 December 22, 2024		
		 December 22, 2024		
		 December 22, 2024		
		 December 22, 2024		
		 December 22, 2024		
		 December 22, 2024		

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-12	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-12	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)

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-13	Fire Protection System (Standpipe)	A Standpipe system is found to be installed in the factory, which is required to be reviewed and verified. Location: Building-12.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14,20,22 and 24. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation/modification within 4 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
  				
F-14	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation/ modification)
F-15	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation/ modification)

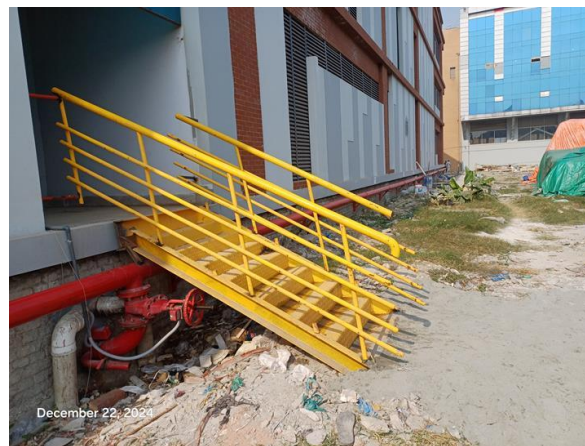
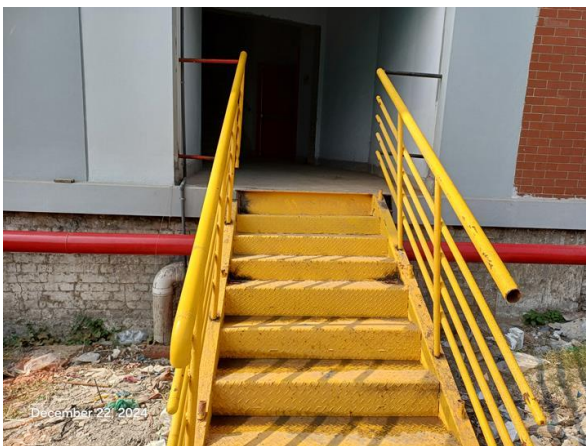
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-16	Fire Rated Construction	Portable fire extinguisher are not installed inside 2nd floor unoccupied area. Few installed portable fire extinguishers are not mounted properly. Location: Building-12	Portable fire extinguishers shall be installed 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). 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). The clearance between the bottom of the hand portable fire extinguisher and the floor be less than 4 in. (102 mm).	Within 3 months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-17	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
F-18	Emergency Lighting	Directional signage is not provided along the path of egress where there is a change in the direction for the path of travel. Exit sign is provided only in exit. But, a few has less illumination level. Location: All floors, Building-12	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-19	Emergency Lighting	Emergency light is not provided in the steel portion on 1st & 2nd floor. Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-20	Emergency Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 month

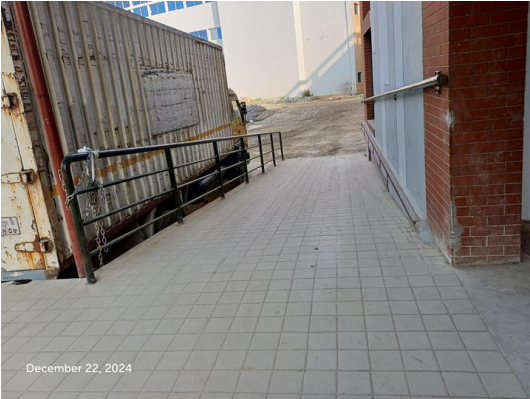
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-21	Means of Egress	Width of stair is less than 60 inches. Location: discharge of south-east staircase- 3 (temporary Steel stair). Note that all four staircase has sufficient width	Construct stair in discharge in such a way that it shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies.	Within 3 months

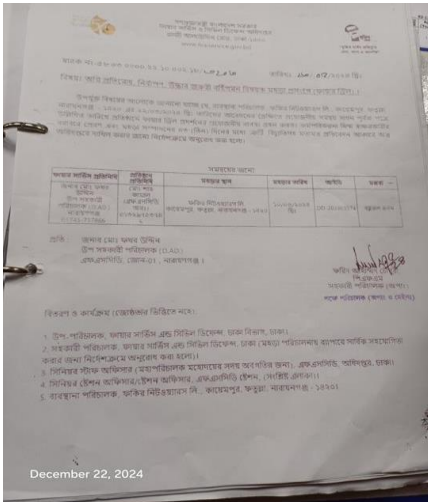


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-22	Means of Egress	South and east side exit discharge path are unusable & abrupt changes of elevation in the walking surface have been found.	Provide an even level walking surface in exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard).	Within 1 month
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-23	Means of Egress	Handrails are not provided on both sides of the exit stairs on the 3rd floor. Intermediate handrail is not provided in discharge stairs more than 2.2m wide. Location: South-west & North-west stair discharge	Both side handrails should be provided to all stairs. Intermediate handrail need to be provided in stairs wider than 2.20m. 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.	Within 1 month



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-24	Means of Egress	North-west Stair-1 discharge is provided with a ramp steeper than 1:12.	Ensure ramps shall not have a running slope greater than 1 in 12 (8 percent).	Within 3 months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-25	Human Element Program	Fire drill has not conducted on a quarterly basis under a fire safety director from FSCD.	Fire drills shall be conducted on a quarterly basis under a fire safety director as outlined in BNBC 2020 Part 4 Appendix A for all garment facilities.	Within 3 months
				

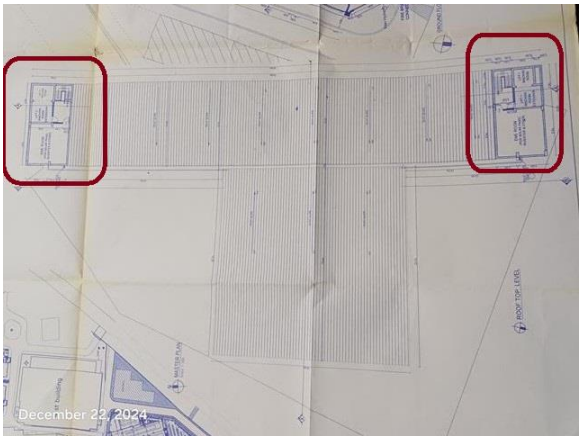
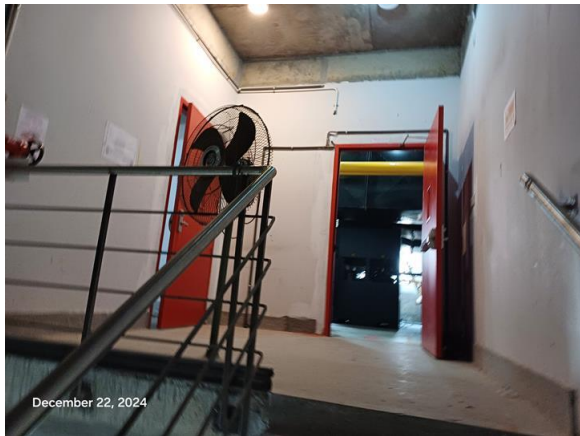
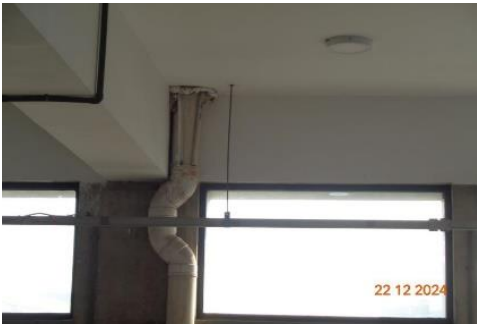
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-26	Means of Egress	On 3rd floor, compressor room, lift machine room and unoccupied rooms at south-west and north-west part is provided with single exit stair.	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC guidelines 6.6.2, a single means of egress is permitted by RSC guidelines 6.6.5 or where a greater number is required by RSC guidelines 6.6.3.	Within 3 months
 				

Table-2: Building-13: New Printing

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-27	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Building-13; Drinking water drain line, rain water drainage pipe, plumbing pipe on toilet area & BBT etc.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level , OR , seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		     		

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-28	Means of Egress	The exit stair enclosures are not separated from work areas due to plumbing pipe connected with floor areas, which doesn't meet clause 6.14.4 (RSC Technical Guidelines) Location: Building-13	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr. construction and 60 minutes for 1-hr construction. Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure. If fire-rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-29	Means of Egress	Storage room discharges directly into exit stair enclosure without vestibules. Location: Building-13 ; All stairs at 4th floor, 3rd Floor stair-01 cut panel store	Openings from the exit enclosure to the storage room, shall be provided with a vestibule with fire-rated construction and openings. Provide a 1.5 hr. fire-rated door on the exit stair side and a 1 hr. fire-rated door on the store side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 months
  				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-30	Means of Egress	Building did not have stair and floor designation signs at required locations on all floors. Location: Building-13.	Provide stair and floor designation signs at required locations.	Within 1 month
F-31	Means of Egress	Headroom measured less than the 80 inch. (available 66 inch) Location: Building-13 ; 2nd & 3rd floor above aisles	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.).	Within 1 month
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-32	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors. Location: Building-13	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-33	Fire Rated Construction	The building is interim construction and Chemical store is located on production floor (Ground, 1st, 2nd & 3rd floor) with G2 occupancy, which is not permitted without 4-hr fire separation. Location: Building-13	Chemical store shall be separated by G2 or H2 occupancy by 4-hr fire rated construction as per Table 3.2.1 (BNBC 2006). No opening is permitted on 4-hr fire wall. Follow any suitable remediation plan from below: a. Either provide additional required direct exit to exterior open area , OR b. Remove the chemical store from the Location OR c. Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006)	Within 3 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-34	Means of Egress	Dinning area doesn't have required direct exits leading directly to the street or leading to a corridor or open space. Location: Building-13 1st floor	Assemblies of Occupancy E4 shall have at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different direction. (3.21.3-BNBC-2006).	Within 3 months
 				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-35	Fire Rated Construction	Female prayer room is not separated from adjacent floor are(Chemical store, production occupancy etc.) by fire rated construction. Location: Building-13 , 1st floor	Separate the prayer area (assembly occupancy) by a minimum 2-hr fire-rated construction having required direct access to exit stair or safe location. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-36	Fire Rated Construction	Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3. Location: Building-13 (Stair-01)	An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure and floor occupants shall not discharge to stair enclosure through lift shaft. . (As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0) Ensure minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with 2-hr fire rated construction barrier and 1.5-hr fire rated doors as per RSC Building Standard 6.14.3 Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-37	Means of Egress	Ramp slope was found approx 14% (1 in 7) on exit ramp at exit stair 01 & 02 discharge path. Location: Building-13	6.10.1 Width. Ramps used in a means of egress shall not reduce the overall means of egress width. The minimum width shall be 1.1 m (44 in.). 6.10.2 Slope. New ramps shall not have a running slope greater than 1 in 12 (8 percent). Existing ramps shall not have a running slope greater than 1 in 8 (12.5 percent). 6.10.3 Handrails. Ramps shall be provided with handrails on both sides of the ramp. Modify the ramp where the slope shall not be steeper than 1:12 (considering interim ramp). Ramps shall be provided with handrails on both sides of the ramp.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-38	Fire Alarm & Detection system	Automatic fire alarm and detection system is being installed (except 4th floor) which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: Building-13	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings 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. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design Review within 2 months and installation/modification within 4 months
F-39	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-13	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)

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-40	Fire Protection System	Fire extinguisher has been placed on a wood shelf where adequate clearance doesn't found between bottom of portable fire extinguisher and the floor. Location: Building-13	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). 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). The clearance between the bottom of the hand portable fire extinguisher and the floor be less than 4 in. (102 mm).	Within 1 month
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-41	Fire Protection System (Standpipe)	A Standpipe system was found installed in the factory, which is required to be reviewed and verified. Location: Building-13	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14,20,22 and 24. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation/modification within 4 months
F-42	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard). Location: Building-13.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation/modification)
F-43	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-44	Fire Rated Construction	The fire pump room is not provided with adequate fire separation from adjacent occupancy due to non-rated duct.	Provide fire pump room with 2 hr. rated fire separation when not sprinklered and 1 hr. rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20. In the case exterior it shall be 50 ft away from another occupancy.	Within 3 months
 				