

INITIAL FIRE SAFETY INSPECTION REPORT

Fullcharm Fashion Knitters Ltd

RSC ID: 25955

Latitude: 23.97317/90.38175

Address: Plot # 1175 & 1179, Bashon Sarak, Vogra, National University, Gazipur.

Other Factories: None



Inspected By: Md. Anisuzzaman & Muntasir Ahmad Nasif

Date: 11-February -2025

Fire Safety Inspection Report

Fullcharm Fashion Knitters Ltd (ID-25955)

Introduction:

Fullcharm Fashion Knitters Ltd, complex was surveyed for fire safety on **11-Feb-2025** by The RSC Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The RSC cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

General Factory Information

There are total 7 structures covered under this RSC ID 25955. Among these two structures for production and other five structures are ancillaries. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Building 1 (Production building-01)	Part (A+B): Mar-2006 to Jan-2008 and Part C: Apr-13 to Nov-14 & occupied Nov 14	Approved from LGED, Gazipur on date-19-May-2010	Feb-2008	Seven Storied RCC with shed on roof	Interim
2	Building-2 (Production building-02)	Jan-2015 to Nov-2017	Approved from City Corporation, Gazipur on date- 10-March-2013	Dec-2017	Two storied RCC(G+1)	Interim
3	Building-3 (Boiler room)	Mar-2006 to July-2006	Approved from LGED, Gazipur on date-31-July-2012	Feb-2008	Single RCC	Existing
4	Building-4 (Fire Pump room)	Jan-2016 to April-2016	Approved design not available on site.	May-2016	Single storied RCC	Interim
5	Shed 1: Water Pump-Chemical-Wastage	Mar-2006 to July-2006	Approved design not available on site.	Feb-2008	Single storied Steel	Existing
6	Shed 2: Effluent Treatment Plant (ETP).	Apr-2020 to Dec-2021	Approved design not available on site.	Dec-2021	Single storied Steel	Interim
7	Shed-3: Water Treatment Plant (WTP).	Mar-2006 to July-2006	Approved design not available on site.	Feb-2008	Single Storied Steel	Existing

Factory Address: Plot # 1175 & 1179, Bashon Sarak, Vogra, National University, Gazipur.

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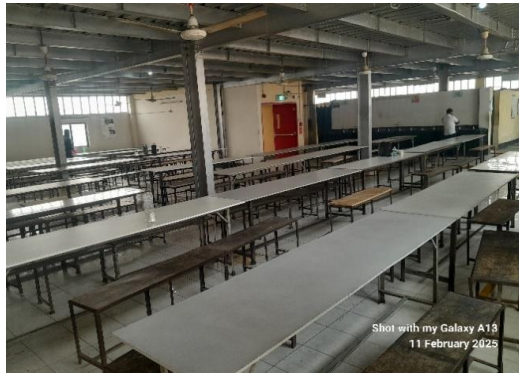
Findings & Recommendations :

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

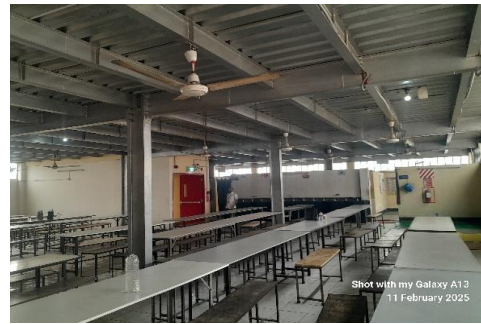
Table-1: All structures under this ID


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Unprotected openings in the exterior wall in two consecutive floors lying not laterally within 1.5 m and vertical spread of fire is not restricted. Location: Building-1(production building-1) & building-2(production building-2)	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, part-3, section: 3.1.7.2	Within 3 months
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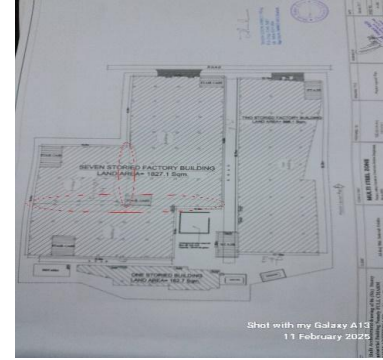
F-02	Fire Rated Construction	<p>It was observed that the 7-storied Building-1 (height: 74feet 7inch) has a 6th-floor occupied roof constructed with non-rated steel members (column, beam) which is required structural fire protection Location: 6th Floor/roof level of the building-1</p>	<p>The "Ministry 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>	Within 6 months
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F-03	Fire Rated Construction	<p>The Dining area (E3) is not separated by fire rated construction with the adjacent store occupancy.</p> <p>Location: 6th Floor of building-1</p>	<p>Separate the dining area from production & other occupancies (present temporary storage) by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs of the same resistance rating.</p>	Within 3 months
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F-04	Means of Egress	<p>Store room directly open into exit stair enclosure without proper fire separation.</p> <p>Location: Exit stair-1 of Building-2 and Exit stair-2 of Building - 1.</p>	<p>Openings from exit enclosure to storage shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guideline (Standard) V1-6.14.3 .</p> <p>Provide a 2 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. The minimum width for vestibules shall not be less than 1.1m and length 1.8m as per BNBC, Part-4, Chapter-3, section 3.13.3.</p> <p>Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p>	Within 3 months
 <p>The first photograph shows a fire safety plan for Fullcharm Fashion Knitters Ltd. with a red circle highlighting a specific area. The second photograph shows a red fire-rated door that is open, revealing a storage area directly adjacent to a stair enclosure. The third photograph shows a red fire-rated door in a stairwell, with a person in a yellow protective suit standing nearby.</p>				
F-05	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.</p> <p>Location: Construction expansion joint & steam pipe for building-1 (production building-1)</p>	<p>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet.</p> <p>Or</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months




F-06	Fire Rated Construction	<p>The factory is using/storing liquified gas cylinders without proper separations</p> <p>Location: Inside Boiler shed & in front of ETP</p>	<p>The factory shall follow TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN THE FACTORY PREMISES.</p> <p>LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions.</p> <ol style="list-style-type: none"> 1. The storage building must be at least 3 meters away from any other building and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB). 	Within 6 months
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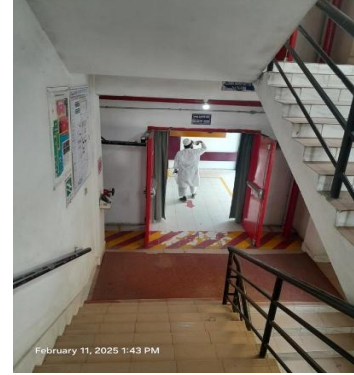


F-07	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to some non-rated fire doors & non-functional fire doors</p> <p>Location: Building1(production building-1) & building 2(production building-2)</p>	<p>The exit 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 construction barrier 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.</p> <p>Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p>	Within 3 months
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F-08	Means of Egress	Exit stairs do not discharge directly to the outside due to non-functional fire doors Location: Exit stair-2 of the building1 (production building1)	Modify stair to discharge directly outside. Or Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 3 months
				

F-9	Means of Egress	Width of exit stairs are less than 1.5 m (60 in.) Location: Building -1, Stair-1 = 57inch, Stair-2 = 58inch, Stair-4 = 44 inch.	In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m(79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used.	Within 3 months
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F-10	Fire rated construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction.</p> <p>Location: Ground floor linking & embroidery section, 2nd floor, 3rd floor iron & distribution section, 4th floor linking inspection, 5th floor distribution room of Building-1 and 1st floor of Building-2.</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or,</p> <p>Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:-</p> <ol style="list-style-type: none"> 1. General Condition: Maximum height of 2.4m (8 ft) and maximum area of 23 m² (250 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft). 2. If sprinkler protected: Maximum height of 3.66 m (12 ft) and maximum area of 93 m² (1000 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft). <p>Note: Do not exceed 10 percent of the building area of the story in which they occur.</p>	Within 3 months
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F-11	Means of Egress	<p>The available travel distance (126 ft) exceeds the maximum allowable limit where only a single means of exit has been provided.</p> <p>Location: Finished goods store at 1st floor of Building-1.</p>	<p>Provide additional means of exit or Exits shall be re-arranged in such a manner that the travel distance from any point in the area served shall not exceed 23 meter (75 ft) for up to 30 occupants following Table 6.6.2 of RSC Technical Guideline (standard).</p>	Within 3 months
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F-12	Means of Egress	<p>Rooms used for storage of combustible materials are not separated by fire rated construction.</p> <p>Location: Ground floor of Building-1.</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 months
				
F-13	Means of Egress	<p>Exit discharge path is not separated from building interior by fire rated construction due to some unprotected openings.</p> <p>Location: stair-2, 3, 4 (south , east, west side) of Building-1 and stair-2 of Building-2.</p>	<p>Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. with minimum 2-hr fire rated materials. as per 6.17 of RSC Technical Guideline (Standard)</p>	Within 3 months



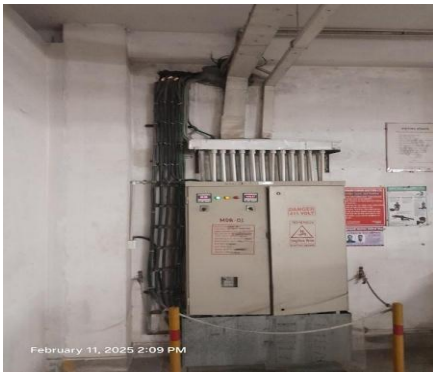
F-14	Means of Egress	<p>Unprotected opening found within close proximity of production building-1 at north side (4'5"ft), east side (5 ft), south side (6'2"). Location: Production Building-1.</p>	<p>All buildings and structures shall be separated from other buildings in accordance with BNBC 2006 Part 3 Table-3.2.2 & Table-3.2.3</p>	<p>Within 3 months</p>
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F-15	Means of Egress	<p>Electrical panel boards (DB) and Power cables are located on the inside of Exit stair enclosure.</p> <p>Location: Stair-2 of the Building-1 and Stair-1 at ground floor of Building-2.</p>	<p>Remove or relocate the electrical panel boards and power cables outside from exit stair enclosure. 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) V1.0.</p> <p>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 or 2-hr masonry construction.</p>	Within 1 month
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F-16	Fire rated construction	<p>Fire pump room is not separated due to unprotected openings and penetrations due to cable tray.</p> <p>Location: Ground floor of Building-1</p>	<p>Provide fire pump room with 2 hr. rated fire separation by fire rated construction. Seal all unprotected opening & penetrations..</p> <p>Or,</p> <p>Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20.</p>	Within 1 month
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F-17	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: All buildings & shed.	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.	Within 1 month
F-18	Means of Egress	Exit sign not provided at exit. Location: All building & shed.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 Month

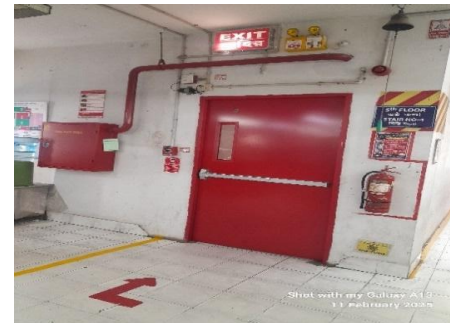
F-19	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All buildings & sheds.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination 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 3 months
F-20	Means of Egress	Building did not have occupant load signs at required locations. Location: All buildings & sheds.	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.	Within 1 month
F-21	Means of Egress	Building did not have stair designation signs and occupant load signs at required locations. Building-1 & Building-2	Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
F-22	Means of Egress	Updated Fire evacuation map is not posted and updated at the entrance of all exit stair. Location: all building & shed.	Fire evacuation maps shall be posted at the entrance to each exit stair. Evacuation map shall reflect the actual floor condition.	Within 1 month
F-23	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month

F-24	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: all building & shed</p>	<p>Submit proposed the fire alarm system & detection system design to RSC for initial review. Once the design is reviewed, install the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the factory shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design Review within 2 months and installation/modification within 4 months.
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F-25	Inspection, Testing & Maintenance (Fire)	<p>Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).</p> <p>Location : all building & shed.</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>	Within 1 month (after installation)
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F-26	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA- 14 , 20 ,22 & 24 or as per RSC standard.	<p>Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA- 14,20,22 and 24.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design Review within 1 month and modification within 3 months (If require).
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F-27	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
F-28	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
F-29	Fire Rated Construction	The day-care room is located at first floor and does not have direct access to an exit stair. Location: 1st floor of Building-1.	1. Provide a direct access from daycare room to exit stair. [if the daycare is located at 1st floor] or 2. Provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair. or 3. Relocate day-care room to ground floor with maximum travel distance of 9m (30 ft).	Within 2 months



F-30	Inspection, Testing & Maintenance (Fire)	<p>Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.</p> <p>Location: all building & shed.</p>	<p>Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC Technical Guidelines (Standard).</p>	Within 1 month
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