

INITIAL FIRE SAFETY INSPECTION REPORT

Jin Hong Garments Ltd.

RSC ID: 25943

Nawjor, Tangail Road, Chandana, Chowrasta, Gazipur-1702,

Geographical Coordinates : 23.98912, 90.36594

Other Factories: N/A



Inspected By: Mohammad Anayet Hossain & Hasanat Alamgir Aber

Date: 22-Oct-2024

Fire Safety Inspection Report

Jin Hong Garments Ltd.

Introduction:

Jin Hong Garments Ltd. complex was surveyed for fire safety on **22-October-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

SI No	Building Name & Description	Construction History	Period
1	Building-1: Production Building. 6-storied RCC Structure building. Total Approx Area: 354596 sft	Construction Start: December 2005 Construction End: October 2007 Date of first Operation: Previously occupied by 'Diganta Sweaters Ltd. (9482)' Building Approval: On October 2005 from LGED	Existing
2	Building-2: Boiler & Compressor Building. Single storied RCC building. Total Approx Area: 2739 sft.	Construction Start: December 2023 Construction End: January 2024 Date of first Operation: March 2024 Building Approval: No building approval has been found.	New
3	Building-3: Sub-station Building. Single storied RCC building. Total Approx Area: 2736 sft.	Construction Start: December 2023 Construction End: January 2024 Date of first Operation: March 2024 Building Approval: No Building Approval has been found	New
4	Building-4: Medical & Child Care Building. Single storied RCC building. Total Approx Area: 1544 sft.	Construction Start: December 2023 Construction End: January 2024 Date of first Operation: March 2024 Building Approval: No Building Approval has been found	New
5	Building-5: MDB Building. Single storied RCC building. Total Approx Area: 158 sft.	Construction Start: December 2023 Construction End: January 2024 Date of first Operation: March 2024 Building Approval: No Building Approval has been found	New

6	Shed-1: Warehouse. Single storied Masonry Construction. Total Approx Area: 22624 sft.	Construction Start: December 2005 Construction End: October 2007 Date of first Operation: Previously occupied by 'Diganta Sweaters Ltd. (9482)' Building Approval: No Building Approval has been found	Existing
7	Shed-2: Security Room. Single storied Masonry Construction. Total Approx Area: 1200 sft.	Construction Start: December 2005 Construction End: October 2007 Date of first Operation: Previously occupied by 'Diganta Sweaters Ltd. (9482)' Building Approval: No Building Approval has been found	Existing

Factory Address: Nawjor, Tangail Road, Chandana, Chowrasta, Gazipur-1702,

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 approval.

Table-1: For Building No # 1,2,3,4,5 & Shed No # 1,2

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	<p>The factory has installed fire rated doors for exit stair separation on all floors for all stairs. The datasheets & certificates of installed fire-rated doors will be verified during the next inspection.</p> <p>Location: Building-1: Production Building.</p>	<p>The factory shall provide datasheets and certificates of installed fire rated doors and their accessories to verify during the next inspection.</p> <p>If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p>	Within 3 months



F-2	Means of Egress	<p>Uneven walking surface were found from exit discharge of Stair-4 and are not protected from slip or tripling hazard.</p> <p>Location: Building-1_North Side_Stiar-4</p>	<p>Provide an even level walking surface in exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard_V1.0)</p>	<p>Within 3 months</p>
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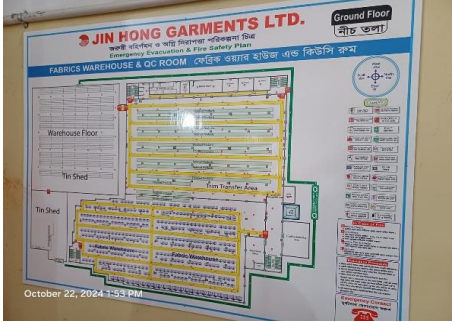





F-3	Means of egress	<p>West side exit discharge path has been found less than 10 feet and not protected from the building interior.</p> <p>Location: Building-1_West Side_Stair-2 & Stair-3</p>	<p>Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation.</p>	Within 3 months
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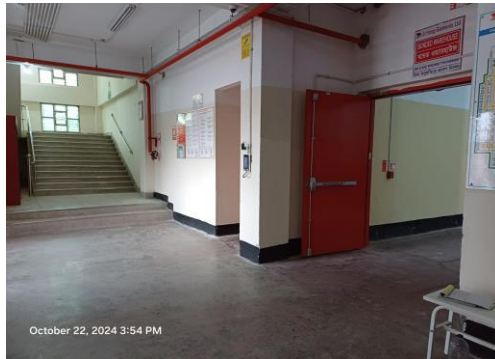
F-4	Means of egress	<p>Inadequate egress width has been found in the exit discharge path at stair-4 of the production building.</p> <p>Location: Building-1_Stair-4</p>	<p>The path of egress travel along a means of egress shall not be interrupted by any obstruction. The capacity of the means of egress shall not be reduced along the path of travel as per RSC Technical Guideline 6.5.2</p>	Within 3 months
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F-5	Means of Egress	<p>Secondary exit route of office room has been found through hazardous area (storage) on Ground floor.</p> <p>Location: Building-1_Ground floor.</p>	<p>Emergency egress route shall never be designed through any hazardous area. Firstly, verify the feasibility of single exit criteria following RSC Standard-6.6.2, if that fails then re-route the egress route avoiding hazardous area as store, utility etc.</p>	Within 3 months
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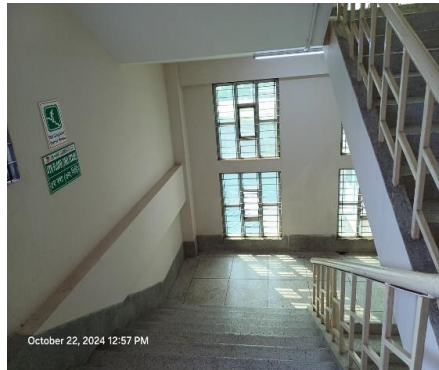
F-6	Means of Egress	<p>Unsealed penetration/opening has been found in exit discharge path of egress court.</p> <p>Location: Building-1_North Side</p>	<p>An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court</p>	Within 3 months
				


F-7	Means of Egress	<p>Storage room discharges directly into the exit stair enclosure.</p> <p>Location: Building-1_Ground Floor.</p>	<p>Openings from exit enclosure to storage 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 storage room side as per 6.14.3-RSC Technical Guidelines Standard V1.0.</p> <p>Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p>	Within 3 months
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F-8	Means of Egress	<p>Aisles has not been found in several locations and some of the aisles were found less than 36" in several location.</p> <p>Location: Building-1, Shed-1</p>	<p>Aisles shall be provided at all required places and the minimum unobstructed clear-width of aisles is 0.9 m (36 in.).</p>	<p>Within 3 months</p>	
					





F-9	Means of Egress	<p>Handrails were not provided on both sides of the exit stairs.</p> <p>Location: Building-1.</p>	<p>Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Existing handrails that are less than 760 mm (30 in.) or greater than 1100 mm (44 in.) as measured from the leading edge of the tread, shall be replaced with handrails meeting the RSC requirements of 6.12.1.1</p>	Within 3 months
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F-10	Means of Egress	<p>Directional Exit signage was not provided along the path of egress where there is a change in the direction for the path of travel and the direction to an exit is not obvious.</p> <p>Location: Building-1, Shed-1</p>	<p>Provide directional 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 directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p>	Within 1 month
				


F-11	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: Building-1</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.</p>	Within 3 months
				

F-12	Fire Rated Construction	<p>Room used for combustible storage has not been separated properly by fire rated construction from production and office area of the building.</p> <p>Location: Building-1_Ground, 2nd-5th floor.</p>	<p>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.</p>	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				
F-13	Fire Rated Construction	<p>Areas used for combustible storage open to the factory are not separated by fire rated construction.</p> <p>Location: Building-1_1st & 5th Floor.</p>	<p>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 1 hr. fire rated fire rated barrier construction.</p> <p>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) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</p>	Within 3 months

				
F-14	Fire Rated Construction	<p>Unsealed penetrations and openings has been found due to Bass Bar are located in the fire rated floor/ceiling assemblies</p> <p>Location: Building-1.</p>	<p>Provide a minimum 2-hr fire-rated shaft to separate the bass bar from each floor level</p> <p>or</p> <p>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. Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install the passive fire protection system (If required).</p>	Within 3 months
				

F-15	Means of Egress	<p>The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction due to unsealed opening and penetration has been observed within 10 feet in the exit stair enclosure.</p> <p>Location: Building-1_North Side.</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 0.75 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.</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.</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>	Within 3 months
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F-16	Fire Rated Construction	<p>The factory has installed fire rated doors for elevator/lift open in factory floor on 1st to 5th floors. The datasheets & certificates of installed fire-rated doors will be verified during the next inspection.</p> <p>Location: Building-1: Production Building.</p>	<p>The factory shall provide datasheets and certificates of installed fire rated doors and their accessories to verify during the next inspection.</p> <p>If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p>	Within 3 months
				
F-17	Fire Rated Construction	<p>The dining room have a seating capacity 309 (E3 occupancy) is located along with production floor (G2 Occupancy).</p> <p>Location: Building-1_2nd Floor.</p>	<p>The dining area (E3) is not permitted with moderate hazardous occupancies (G2) following part 3, table 3.2.1 of BNBC-2006. Reduce the dining capacity less than 300 (E4) and shall be separated from G2 occupancy by minimum 3 hr fire rated construction with minimum 3 hr opening protection.</p>	Within 3 months




F-18	Fire Rated Construction	<p>The boiler and compressor building (Building-2) has not been separated by fire rated construction. Unprotected opening has been found within 10 feet from the Production Building (Building-1).</p> <p>Location: Building-2.</p>	<p>Separate the boiler and compressor rooms by a minimum 1-hr fire-rated construction for non-high rise, and 2-hr fire rated construction for high rise. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building 3m (10 ft.) spatial distance shall be maintained around the boiler/compressor. Ensure proper ventilation for the boiler/compressor room.</p>	Within 3 months
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F-19	Means of Egress	<p>Single exit has been provided in the Boiler & Compressor Building (Building-2) where travel distance has been found more than 75 feet.</p> <p>Location: Building-2.</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 6.6.2, a single means of egress is permitted by 6.6.5 or where a greater number is required by 6.6.3 of RSC Technical Guidelines Standard.</p> <p>Provide Additional exit in the Boiler & Compressor Building.</p>	Within 3 months
				
F-20	Means of Egress	<p>Occupant load sign were found missing at the required locations.</p> <p>Location: Shed-1.</p>	Provide occupant load sign at required locations.	Within 1 month

F-21	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification. After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 2 months and installation within 4 months.
				
F-22	Fire Detection System (ITM of FADS)	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 Table-14.3.1 of NFPA 72	Within 1 month after installation.

F-23	Fire Protection System(Standpipe System)	The existing building has an occupied floor greater than 10 meter (33 feet), therefore, standpipe system is required. Installation requires detailed review to confirm compliance with NFPA 14 and RSC standards.	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. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 months and installation within 4 months.
				
F-24	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system are not in accordance with NFPA 14 and 25 or as per RSC standard.	Inspect, test and maintain the standpipe system, and keep written records onsite, in accordance with NFPA 14 and 25 or as per RSC standard.	Within 1 month after installation.

F-25	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation.
F-26	Fire Protection System(ITM of 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 standards	Within 1 month
F-27	Fire Protection System(ITM of Emergency Lighting System)	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 after installation.