

INITIAL FIRE SAFETY INSPECTION REPORT

Rong Rui Garments BD Ltd

RSC ID: 25684

24.227218, 90.427230

Tepirbari, Mawna, Sreepur, Gazipur, 1740, Bangladesh

Other Factory : None



Inspected By: Md. Sadid Rahman and Muntasir Ahmed Nasif

Date: 24-Apr-2024

Fire Safety Inspection Report

Rong Rui Garments BD Ltd

Introduction:

Rong Rui Garments BD Ltd. complex was surveyed for fire safety on **24-Apr-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):

SI	Name	Construction year	Type
01	Building# 1- Production Building (4 Storied RCC Building with occupied roof)	Construction year : Jun-2014 to Dec-2017. Occupied year : Oct-2022 (Previously under the ID 24623-Zaman Fashion Ltd RMG Factory (2018-2022)) Approval Date: Feb-2017 (Telihati Union parishad)	Interim Construction
02	Building# 2- Utility Building (2 Storied RCC Building)	Construction year : Apr-2015 to Oct-2018. Occupied year : Feb-2019 Approval Date: Feb-2017 (Telihati Union parishad)	Interim Construction
03	Building# 3- Fire Control Building (2 Storied RCC Building)	Construction year : Jan-2016 to Oct-2018. Occupied year : Feb-2019 Approval Date: Feb-2017 (Telihati Union parishad)	Interim Construction
04	Building# 4- Security , Medical & Childcare. (Single Storied Steel Structure)	Construction year : Jan-2018 to Jan-2023. Occupied year : Jan-2023 Approval Date: Feb-2017 (Telihati Union parishad)	Interim Construction
05	Shed# 1- Admin Building (Single Storied Steel Structure)	Construction year : Jan-2020 to Jul-2020. Occupied year : Jul-2020 Approval Date: Feb-2017 (Telihati Union parishad)	Interim Construction
06	Shed# 2- Generator and Substation (Single Storied Steel Structure)	Construction year : Mar-2018 to Jun-2018. Occupied year : Feb-2019	Interim Construction
07	Shed# 3- Bonded Warehouse (Single Storied Steel Structure)	Construction year : Jan-2023 to May-2023. Occupied year : May-2023	New Construction

Factory Address: Tepirbari, Mawna, Sreepur, Gazipur, 1740, Bangladesh

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: B# 1,2,3,4 and Shed-1,2 and 3

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. Moreover, thickness of the wall of exit stairs has not been maintained. Location: B#1 , B# 2, B# 3 (Ground Floor).	Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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. Ensure that the wall thickness maintained for rated required fire separation. Moreover, factory shall ensure the integrity of the fire rated door through proper documents and listing labeling.	Within 3 months



F-2	Fire Rated Construction	Elevator shafts are directly open into exit enclosure and not done as per 6.14.3 of RSC Technical Guidelines Standard.	Ensure a minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with a 2-hr fire-rated construction barrier and 1.5-hr fire-rated doors. So, rearrange the facility to provide separate enclosures for lifts. If not possible anyway provide a minimum 2-hr fire-rated elevator shaft with a listed fire-rated lift landing door to separate from each floor level.	Within 3 months
F-3	Fire Rated Construction	Storage rooms discharges directly into exit stair enclosure on 1st Floor. Location: B# 1.	Openings from exit enclosure to storage and machine room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storage and machine room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months

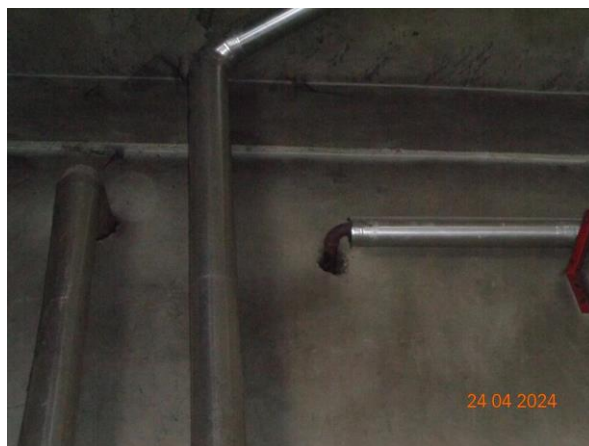
				
F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: B# 1 BBT and Plumbing pipe of Toilet block. On B# 2: Exhaust pipe of Jhute boiler (through Dinning).	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level. Seal all penetrations and openings in floors/ceiling assemblies to maintain the fire separation.	Within 3 months

				
F-5	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: B# 1	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m	Within 3 months

 				
F-6	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction. Location: B# 1	Separate the storage room by a minimum 1- hr. fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months

				
F-7	Fire Rated Construction	Fire door accessories (door coordinators, door closer, latching system, magnetic door holders) in various location have been found non-functional and some cases missing. Few fire doors were observed kept forcedly opened by unauthorized manner. So fire separation is not being maintained. Location: B# 1	Factory shall ensure that the maintenance work shall be done for the door hardware and accessories on a regular basis as per NFPA 80 and manufacturer's published guideline. Repair/ replace the hardware and accessories which are not functional or under unauthorized maintenance. Doors shall not be tied up with rope or blocked by obstacles. Keep the fire rated doors close all time, if for functional reason require to keep open then interfacing facility with functional FACP shall be ensured. Moreover, factory shall ensure the integrity of the fire rated door through proper documents and listing labeling.	Within 3 months

														
F- 8		Fire Rated Construction		Exit stair enclosures are not free from unusual unsealed penetrations and openings (Steam Pipe of Boiler). Location: Building- 2				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. Remove cable raceway/busbar riser/ Steam Pipe/ plumbing pipes and electrical pipes from the exit stair enclosures. Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.				Within 3 months		



F- 9	Means of Egress	Landing has not been provided for stair 2 of B# 1 (3rd Floor) and 2 (1st Floor).	Provide landings with same width as the stair clear width shall be provided at each level and at intermediate landings as per 6.9.2.2 of RSC technical Guidelines Standard.	Within 1 Month.
				

F-10	Means of Egress	Functional exit signs and the directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious. Location: B# 1 and 2	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.
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F-11	Means of Egress	Storage was located in exit stair. Location: Stair-1 and 3 of B# 1 and Stair-1 of B# 2.	Remove storage from the exit stairs and egress path	Immediate
				
F-12	Means of Egress	Non compliant locking feature has been found on exit discharge. Location: B# 1 (several Location), B# 2 - Stair 2 (1st Floor).	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediate
				

F-13	Means of Egress	The width of the aisles were less than 36 inch. Location: B# 1 (several Location),	Provide minimum aisles widths of 36 inch. All the aisles shall be free from any kind obstruction.	Within 1 month
				
F-14	Means of Egress	Building did not have Evacuation map, stair designation signs and occupant load signs at required locations on all floors	Provide Evacuation map, stair designation signs and occupant load signs at required locations.	Within 1 Month

F-15	Means of Egress	Handrails are not provided on both sides of the exit stair. Location: Building-2	Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 1 Month
				

F-16	Means of Egress	Uneven path of travel has been provided for exit access. Locations: Building-2 _Stair 1 and 2.	Remove unnecessary items and level exit path to the public way. 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 if required.	Within 1 month
 				

F-17	Means of Egress	Inadequate Parapets/ Guardrail were provided.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.).	Within 3 Months
				

F-18	Means of Egress	Stair width has been found less than 60 inch for interim construction. Location: B# 1 [Stair 1,2,3- 48 inch to 58 inch] and B# 2- Stair 2.	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 as per 6.5.6.2.1 of RSC technical Guidelines Standard.	Within 3 Months
 				

F- 19	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design Review within 2 months and installation within 4 months.
				
F-20	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	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. (After Installation)	Within 1 month after installation.

F-21	Fire Suppression System (SUPS)	The required standpipe system is not installed in accordance with the RSC standard.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14,20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design Review within 2 months and installation within 6 months.
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F-22	Inspection Testing and Maintenance of Fire Suppression System (SUPS) (ITM)	Inspection, testing and maintenance of the standpipe system is not found in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.
F-23	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-24	Inspection Testing and Maintenance of extinguisher	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.	Within 1 month