

# INITIAL FIRE SAFETY INSPECTION REPORT

**R&G(BD)Garment Co,.Ltd**

**RSC ID: 24682**

**Bhabanipur, Gazipur Sadar, Gazipur**

Geographical Coordinates of factory building: 24.147316; 90.421211



**Inspected By: Pantha Pallab Das and Dilip Kumar Mondal**

**Date: 30 April-2023**

# Fire Safety Inspection Report

R&G (BD) Garment Co, Ltd.

## Introduction:

**R&G(BD)Garment Co,.Ltd.** complex was surveyed for fire safety on 30 April-2023 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):**

1. Main Production Building-10 Storied RCC building with partial basement.
2. Canteen Building-7 Storied RCC.
3. Temporary Generator Shed.
4. Compressor Building
5. 3 nos. Security Buildings.


**Factory Address: Bhabanipur, Gazipur Sadar, Gazipur**

**Points of contact:**

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**Table-1: Finding & recommendation for Main Building & Dining Building.**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The generator located inside of a temporary room is not separated by fire rated construction.	Separate the generator room by a minimum 2-hr fire-rated construction. 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 generator.	Within 3 months
				
F-2	Fire Rated Construction	The compressor located inside of compressor room is not separated by fire rated construction.	Separate the generator room by a minimum 1-hr fire-rated construction. 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 generator.	Within 3 months



F-3	Fire Rated Construction	Elevator shaft is not fire separated. On ground floor for one elevator it is located inside of a common enclosure of stair without fire separation.	Ensure the elevator shaft is 2-hr fire separated and not in common enclosure of stair. If not possible to ensure separate enclosure then at least ensure the lift landing door opening is minimum 2-hr fire rated.	Within 3 Months
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F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. (Both Dining and Main building).	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 guideline. (Type-1 Construction). or, 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
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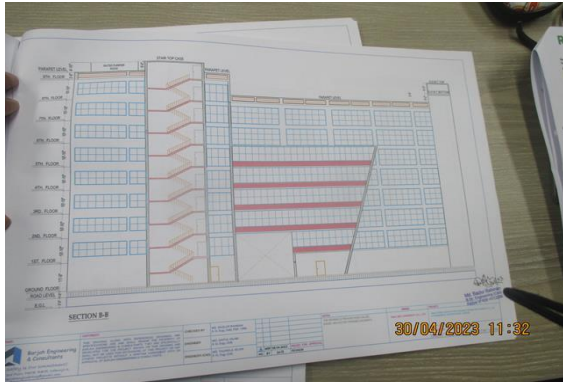


F-5	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to non-functionality of fire rated door and unprotected opening.</p>	<p>The exit stair enclosure shall be provided a minimum of 2- hr. fire resistance rating for the buildings. Ensure minimum 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for the buildings.</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>	
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F-6	Means of Egress	The exit discharge path was not properly fire separated due to unprotected openings of the main building. (Main Building).	The exit discharge path shall be fire separated by minimum 2-hr fire rated construction following section 6.17.3 of RSC Technical guideline (Standard). Seal the unprotected openings by minimum 1.5 hour fire rated sealer or 2 hr. masonry construction along with automatic sprinkler system.	Within 3 months
				
F-7	Means of Egress	Building did not have stair designation signs and occupant load signs at required locations on all floors	Provide stair designation signs and occupant load signs at required locations.	Within 1 month

F-8	Means of Egress	Exit signage were not properly installed for the buildings.	<p>Illuminated 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. All required exit signs shall be illuminated continuously at all times. 10.12.1.2 Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2cd/m2 may also be used. Lighting for exit signs shall either be provided with emergency power or battery backup.</p>	Within 1 month
				
F-9	Mean of Egress	Exit stairs serve more than 5 stories and do not have required reentry provisions on all floors.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC technical guideline (standard) 6.8.3.1.	Within 1 month



F-10	Egress 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.	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
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F-11	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was 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). Keep written records on-site.	Within 1 month
F-12	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	<p>Design &amp; Installation of Fire Alarm &amp; Detection system shall be in accordance with RSC Technical Guidelines (Standard) and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection &amp; alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.</p>	Design Review within 3 months and installation 2 months after review.



F-13	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with table 14.3.1 of NFPA 72 or as per RSC Technical Guidelines (Standard).	Within 1 month after installation.
F-14	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with RSC Technical Guidelines (Standard) and NFPA-14. (Dining Building)	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guideline (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 3 months and installation 2 months after review.



F-15	Fire Protection System(Sprinkler)	Sprinkler system installation requires detailed review to confirm compliance with NFPA 13 and the RSC Technical Guidelines (Standard). (Main Building)	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, RSC Technical guideline (Standard) and NFPA 13,14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 3 months and installation 2 months after review.
				
F-16	ITM of Standpipe system	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation.

F-17	ITM of fire pump	Inspection, testing and maintenance of the fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation.
F-18	ITM of Sprinkler system	Inspection, testing and maintenance of the sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the sprinkler system and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation.
F-19	ITM of Extinguisher	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC Technical Guidelines (Standard).	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per the RSC Technical Guidelines (Standard).	Within 1 month