

INITIAL FIRE SAFETY INSPECTION REPORT

Explore Garments Ltd.

RSC ID: 24948

[Location: 24°05'43.3"N 90°10'07.0"E](#)

Gorai, Momin Nagar, Mirzapur, Tangail-1941, Bangladesh

**Other Factory : Shahzaib Washing & Dyeing Ltd (GF to 2nd Floor of Production Building)
Humana Apparels Ltd (8th to 9th Floor of Production Building)**



Inspected By: Mohammad Anayet Hossain, Md. Sadid Rahman & Hamed Mustakim

Date: 17-Dec-2023

Fire Safety Inspection Report

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Introduction:

Explore Garments Ltd. complex was surveyed for fire safety on **17-Dec-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):

SI	Name	Construction year	Type
01	Main Production Building(11-Storied RCC Building)	Construction year : Dec-2017 to Aug-2023. Occupied year : Sep-2022	Interim Construction
02	Utility Building(2-Storied RCC Building)	Construction year : Mar-2021 to Feb-2022. Occupied year : Sep-2022	New Construction
03	ETP(2-Storied RCC Building)	Construction year : Mar-2021 to Mar-2023. Occupied year : Sep-2023	New Construction
04	RMS ROOM-1(1-Storied RCC Building)	Construction year : Jan-2018 to Mar-2018. Occupied year : Apr-2018	Interim Construction
05	RMS ROOM-2(1-Storied RCC Building)	Construction year : Feb-2022 to Mar-2023. Occupied year : Apr-2022	New Construction
06	PUMP Room(01 Storied RCC Building)	Construction year : Jan-2018 to Jan-2018. Occupied year : Jan-2018	Interim Construction
07	Security Guard Room(1-Storied RCC Building)	Construction year : Sep-2022 to Mar-2023. Occupied year : Sep-2023	New Construction
08	Gate-2	Construction year : Sep-2023 to Oct-2023. Occupied year : Oct-2023	New Construction
09	Chemical Storage	Construction year : Mar-2022 to Apr-2022. Occupied year : May-2022	New Construction

Factory Address: Gorai, Mirzapur, Tangail-1941, 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:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Transformer rooms are not separated by fire rated construction from office.	Separate the Transformer rooms minimum 2-hr fire-rated construction from office area. Seal and/or protect all openings to maintain the required fire separations.	Within 3 Months
				

F-2	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction on 1st floor and 3rd floor in Building-1 Main Building .	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. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: Where 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.	Within 3 Months
				

F-3	Fire Rated Construction	Unsealed penetrations and openings are located at 1st floor, 6th floor in Building-1 and utility building.	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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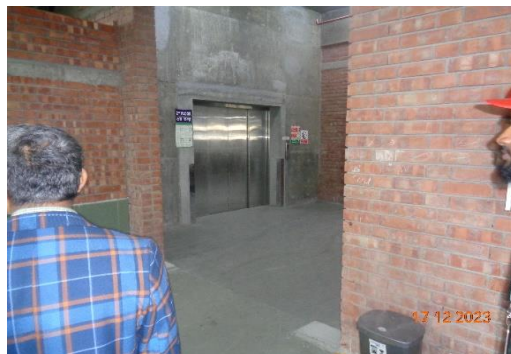
F-4	Fire-Rated Construction	The dining area is separated from production area by fire rated construction but occupant capacity 700 person. Location: 5th floor,Building-1	Occupancy Assembly E3(less than 300 person) is permitted with Occupancy Industrial Building G2.(table: 3.2.1, BNBC:2006) Remove dining area from production building or reduce the seating arrangement less than 300 person.	Within 3 Months
 				

F-5	Fire Rated Construction	Storage discharged directly into the exit stair enclosures at Stair-5 (i.e.: 6th floor, 5th floor, 1st floor) in Building:1.	Opening from exit enclosure to storage areas shall be provided with a vestibule with fire rated construction and openings. Provide 1.5- hr. fire rated door on the exit stair side and 1-hr fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 Months
				

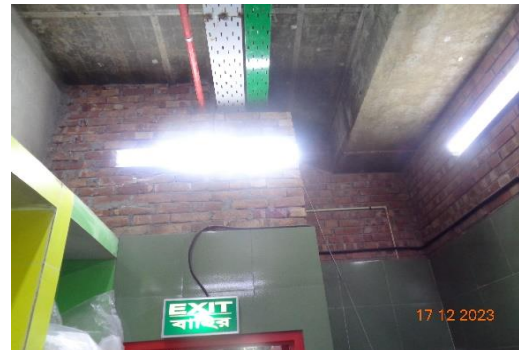
F-6	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr. fire resistance 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. 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.	Within 3 Months
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F-7	Fire Rated Construction	Elevator shafts are directly open into production floor without proper fire separation	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. (In new construction, elevators shall not open into an exit enclosure [RSC Building Standard 6.14.3].	Within 3 Months
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F-8	Fire Rated Construction	Chemical storage rooms located at ground and first floors are not properly fire separated from surrounding occupancies, due to openings and penetrations.	Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area. Ensure that the building/room houses chemical is Type-1 construction. As per BNBC, chemical storage room shall be Type-1 construction (Table-3.2.4 of BNBC-2006). Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.	Within 3 months
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F-9	Means 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 standard 6.8.3.1.	Within 1 Month
F-10	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-11	Means of Egress	The day-care room does not meet RSC standard 3.4.2.1.1. Day care room located at 3rd floor.	Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure. If the above is not possible provide a minimum 2-hr fire rated exit corridor between the day-care room and exit stair with RSC approval.	Within 1 Month
F-12	Means of Egress	Aisle mark has not been provided several floor.	Provide minimum aisle widths of 36 inch with proper marking & update on evacuation map. All the aisles shall be free from any kind obstruction.	Within 2 Months
 				
F-13	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-14	Means of Egress	Single exit is provided at 8th floor of Building-1 and 1st floor of utility building(Compressor room)	Provide minimum 2 exits and stairs for this building from top floor to ground floor. Exits which should be remotely located.	Within 3 Months
F-15	Means of Egress	Common path of egress travel in the lase room at 2nd floor(Main building-1) exceeds 23 meter/75 ft and exits are not remotely located from each other such that a single fire event could compromise both exits.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 meter. and, -Modify exit arrangement to meet RSC standard 6.6.6. - Provide additional exit(s) to meet RSC standard 6.6.6. - Provide sprinkler protection in accordance with NFPA 13to meet RSC standard 6.6.6	Within 3 Months

F-16	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.	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-17	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-18	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-19	Fire Suppression System (SUPS)	Fire protection system (Standpipe) installation is underway which requires detailed review to confirm compliance with NFPA 14,20 and RSC Technical Guidelines (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 1 months and installation within 4 months.



F-20	Fire Protection System	Sprinkler system installed for the building along with standpipe system. Both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard).	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 1 months and installation within 4 months.
F-21	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-22	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-23	Inspection Testing and Maintenance of Emergency lighting	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 RSC standards.	Within 1 month