

INITIAL FIRE SAFETY INSPECTION REPORT

Olympic Fashion Ltd

RSC ID: 24883

BK Bari, Mirzapur Bazar, Gazipur Sadar, Gazipur, Bangladesh

Geographical Coordinates of factory building: 24.105266 N,90.402996 E

Other Factories: N/A



Inspected By: A N Faisal Ahmed, Shahina Imam & Muntasir Ahmad Nasif

Date: 15 October-2023

Fire Safety Inspection Report

Olympic Fashion Ltd

Introduction:

Olympic Fashion Ltd Complex was surveyed for fire safety on **15 October-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. Building-1: Main Building ;RCC (G+5), Area: 7348 sqm

Start Date: June 2015

End Date: December 2018

Production Start: Feb, 2019

Note: Building is currently fully occupied by 4 floors but all stair enclosure are constructed up to roof considering proposed 6 story building. One occupied room was observed adjacent to stair-04 on 5th, 6th & roof floor.

2. Building-2 : Compressor shed; RCC+ Steel; Area: 40 sq m.

Start Date: April, 2018

End Date: December 2018

Production Start: Feb, 2019

3. Building-3 : Boiler shed; RCC+ Steel; Area: 20 sq m.

Start Date: April, 2018

End Date: December 2018

Production Start: Feb, 2019

4. Building-4 : Pump Room; RCC with steel roof; Area: 35 sq m.

Start Date: April, 2018

End Date: December 2018

Production Start: Feb, 2019

5. Building-5 : Fire Control & Security Building; RCC Single Story, Area: 19.88 sq m.

Start Date: April, 2018

End Date: December 2018

Production Start: Feb, 2023

Table-1: Finding & recommendation

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.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas , storage, other spaces and due to non functional fire door, smoke seal on each floor by fire rated construction.	Provide minimum 2-hr rated fire wall 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 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. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry.	Within 3 Months



F-2	Fire Rated Construction	Store room discharged directly into the exit stair enclosures at ground floor.	Openings from exit enclosure to storage shall be provided with a vestibule with fire rated construction and openings. Provide a 2 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 Months

F-3	Fire Rated Construction	Exit discharge from exit stair-03 is not directed to outside of the building and exit passageway are not separated from store & other occupancy due to non protected penetration & Openings.	Provide minimum 2-hr rated fire wall and 1.5-hr fire rated doors/openings protective materials for exit passageways & shall terminate on exit discharge.	Within 3 months
 				

F-4	Fire Rated Construction	The Boiler, Compressor room is located just adjacent to main building at exterior location & not separated by fire rated construction (openings, non-rated structure, penetrations) from Main Building.	Separate the Boiler & Compressor room by a minimum 1-hr fire-rated construction from main building including the adequate protection from main building. Seal and/or protected all openings to maintain the required fire separations. Or, Minimum spatial separation of 3 m (10 ft) shall provide where located exterior to the building. Ensure proper ventilation for the boiler & compressor room.	Within 3 Months
 				

F-5	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies due to BBT cable riser.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. or, Provide a minimum 2-hr fire rated shaft to separate the BBT shaft & toilet area from each floor.	Within 3 Months
 				

F-6	Fire Rated Construction	The factory is using/storing liquefied gas cylinder (LPG) without separation.	The RSC Technical Guideline (Standard) V1, section 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building. However, if it is not feasible then conditionally those are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions. 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). Follow RSC Published "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES"	Within 3 Months
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F-7	Means of Egress	A single means of exit has been provided room at 4th, 5th floor & Roof of Main Building.	Provide additional exit according to RSC Technical Guidelines (StandardV 1.0) 6.6.1. Or, Seal the room by masonry wall to restrict access & usages of the rooms.	Within 3 months
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F-8	Means of Egress	Width of exit stairs are less than 1.5 m (60 in) in stair-03 & Stair-04.	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with as per RSC Technical guideline (standard V1) 6.5.6.2.1. Or, If Other exits meet exit capacity, travel distance, common path of travel, dead end, exit remoteness & other exit stair requirements as per RSC Technical guideline (standard V1), these exits may eliminate from emergency exit.	Within 3 Month
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F-9	Mean of Egress	Building did not have stair designation, Floor designation signs at required locations.	Provide stair designation & floor 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-10	Mean of Egress	Building did not have occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 Month
F-11	Mean of Egress	Safe guards are not provided at outside of 4th, 5th floor & Occupied roof areas.	Guards shall provide as per RSC Technical Guidelines (StandardV1.0.) Section 6.12.2 where elevation exceeds 30 in.	Within 1 Month



F-12	Mean of Egress	Storage was located in the Stair-3 egress path.	Keep egress path and stair clear of storage	Immediate
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F-13	Mean of Egress	Boiler & Compressor room both are located exterior location of the main building with a Approx distance 20m. Boiler operator have to discharge through compressor room.	Provide an egress court having a 1-hr fire resistance rated construction through compressor room from boiler room Or, Provide alternative safe exit from boiler are per RSC Technical Guidelines.	Within 3 Month
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F-14	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes on several floors	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.	Within 1 Month
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F-15	Egress Lighting	Illuminated directional signs are not provided where direction of the path of travel to an exit has changed. Location: several location.	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-16	Egress Lighting	Manual On/Off Switch is provided at emergency lighting.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 Month
				

F-17	Egress Lighting	Exit signage is found burned out.	Regularly inspect all exit signage as per The RSC Technical Guidelines (Standard) and replace/install lights as needed to illuminate signs.	Within 1 Month
F-18	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 Month.
F-19	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, 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-20	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-21	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design Review within 2 months and installation within 4 months.



F-22	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	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-23	Fire Protection System(ITM of standpipe)	Inspection, testing, and maintenance for the standpipe system is not in accordance with NFPA 14 and 25 or as per RSC standard.	Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 14 and 25 or as per RSC standard.	Within 1 Month after installation.

F-24	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 Month
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