

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Joy Auto Garments Ltd.

RSC ID: 24457

ADDRESS: B/274/1, Enayet Nagar Purbopara, Godnail, Siddirgonj, Narayanganj

Other Factories: None



Inspected By: Md. Ferdaus Jaman and Shahina Imam

Date: 19th July, 2022

Fire Safety Inspection Report

Factory Name: Joy Auto Garments Ltd.

Introduction:

Joy Auto Garments Ltd. complex was surveyed for fire safety on 19/07/2022 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):

Factory Building name(s): There are total 5 structures in the factory compound under this RSC ID. The buildings are as below:

1. B-01: Garments Building-7 storied RCC building
2. B-02: Utility Building-Single storied RCC building
3. B-03: Fire Pump Room-Single storied RCC building with basement
4. Shed-01: Godown Shed-Single storied shed
5. Shed-02: LPG Gas Station Shed-Single storied LPG shed

Factory Address: B/274/1, Enayetnagar, Purbopara, Godnail, Siddhirganj, Narayanganj.

Findings & Recommendations :

Table 1 summarize the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline. 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.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Building-01 The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors and provide vestibules to avoid direct discharge from storage to exit stair enclosure. If fire rated 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 unless it meets The RSC Technical Guidelines (Standard) 6.8.3.1	Within 3 months

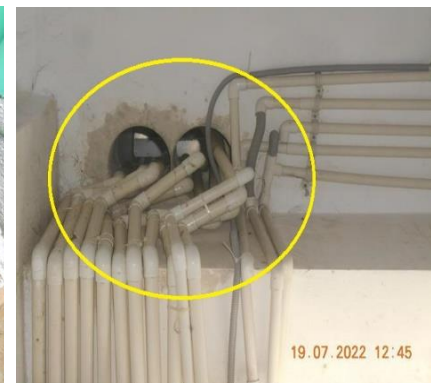


F-2	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures. Location: Stair-1 and stair-2 on several floors	Seal all penetrations and openings in exit stair enclosure walls a minimum 2-hr fire rated separations.	Within 3 months
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F-3	Fire Rated Construction	Elevator shafts are directly open into the inside of exit enclosure. Located: Lobby of Stair-1 and stair-2	Modify the elevator shaft as per The RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure.	Within 6 months
				

F-4	Fire Rated Construction	Storage discharges directly into the exit stair discharge. Location: On ground floor of stair-1 an stair-2.	Openings from exit enclosure to storage room, generator and transformer 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 Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 4 months
 				

F-5	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Followings are the description of openings or penetrations indicating specific locations: 1. Passing of BBT riser through rated walls from ground floor to 6th floor of production building (B-1). 2. PVC pipes penetrate the floor slabs in toilet block of production building (B-1). 3. Floor penetrations due to fire alarm/ IT/ electrical cable riser in production building (B-1). 4. PVC pipes penetrate the floor slabs for supplying water on all floors of production building (B-1).	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 datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. 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-6	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Wash receiving store on 1st floor of production building (B-1)	Provide defined storage areas and limit the storage arrangement as follows: - 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. 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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1-hour construction.	Within 3 months
				

F-7	Means of egress	Egress gates with locking features are provided at several floor of expansion building exits. Location: On roof top and ground floor of B-1.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and and The RSC Technical Guidelines (Standard) 6.8.2.	Within 1 week
				
F-8	Means of Egress	Building did not have stair designation signs & occupant load signs at required locations. Location: 7-storied production building (B-1)	Provide stair designation sign & occupant load 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-9	Means of Egress	The stair-3 was flooding during heavy rain water which may cause falling hazard. Location: Stair-3 on ground floor of production building (B-1)	Provide an adequate drainage system and ensure that water is not accumulating in the exit stair.	Within 1 month
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F-10	Means of Egress	Storage/water pump was located under the exit stairs. Location: Under all stairs on ground floor of production building (B-1).	Remove storage from the exit stairs and egress path.	Within 1 month
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F-11	Egress Lighting	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: On all floors of production building (B-1).	Install 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
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F-12	Egress Lighting	Exit signs are not provided at exit. Location: Exit of Stair-1 on 6th floor of production building (B-1)	Provide exit signs above all exits to the exterior and all doors to the exit stair.	Within 1 month
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F-13	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 3 months
F-14	Fire Alarm & Detection system	Automatic fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, Accord/ RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table 14.3.1 of NFPA 72.	Design Review within 2 months and installation within 4 months



F-15	ITM of Fire Alarm & Detection system	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site	Within 1 month (after installation)
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F-16	Fire Protection System (Standpipe)	Standpipe installation requires detailed review to confirm compliance with NFPA 14, 20 and RSC Technical Guideline (Standard). Location: Production building (B-1)	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 2 months and installation within 4 months.
				

F-17	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)
F-18	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)

F-19	ITM of Fire 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 onsite, in accordance with NFPA 10 and The RSC Technical Guidelines (Standard).	Within 3 months
F-20	Egress Lighting	Godown shed (Shed-1): Exit signs are not illuminated at exit of Godown shed (Shed-1).	Illuminated exit signs shall be placed at entrance to an exit. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month



F-21	Fire Rated Construction	LPG Gas Station Shed (Shed-2): LPG gas cylinders were located within the LPG Gas Station Shed (Shed-2) of the factory premise.	LPG/CNG cylinders 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, CIOB and all other applicable agencies, codes and standards.	Within 1 month
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