

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Scarlet Knitwears Ltd. (Extension)

RSC ID: 24846

ADDRESS: B140, B529, S10 and S11, BSCIC I/E, Fatullah, Narayangonj-1420

Other Factories: None



Inspected By: Md. Rafat Arefin

Date: 10-01-2024

Fire Safety Inspection Report

Factory Name: Scarlet Knitwears Ltd. (Extension)

Introduction:

Scarlet Knitwears Ltd. (Extension) complex was surveyed for fire safety on **10/01/2024** 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.

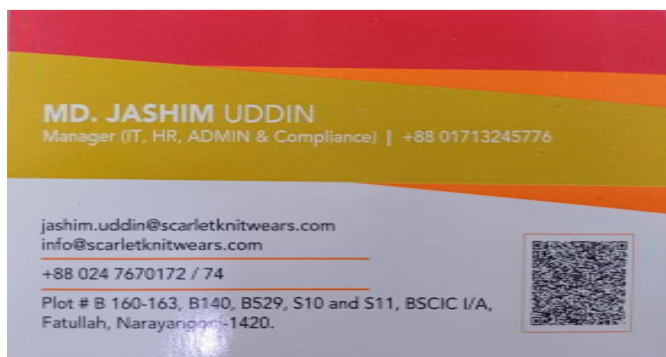
General Factory Information

Factory Building name(s): Building-2 Scarlet Knitwears Ltd. (Extension); **Other Building in the premise is Building-1 (Main production Building)** which is covered by RSC ID-10549

Factory Address: B140, B529, S10 and S11, BSCIC I/E, Fatullah, Narayangonj-1420

Points of contact:

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2. Name: Md. Rakibuzzaman,
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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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Store room, Boiler room discharged directly into the exit stair enclosures.	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/boiler side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months



2	Fire Rated Construction	Penetrations through fire rated floor/ceiling assemblies are not properly sealed. Locations: Construction joint, mechanical and plumbing penetrating pipes going through the fire rated assemblies.	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. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. If fire stopping materials with proprietary design are used for seal, then it shall be classified for the purpose it is used for. Also the installation shall be as per the proprietary design it has been tested with.	Within 3 months
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3	Fire Rated Construction	Fire doors has been installed in the openings of required fire rated assemblies (Exit stairs, Storage rooms, and other occupancy separations), However, fire doors were found with following issues 1. Doors were kept open by means of door wedges. 2. Doors were not provided with adequate/required hardware. 3. Doors were found with excessive clearance. 4. Doors were not provided with required positive latching. 5. Fire doors and frames were found with holes that could impact the fire protection rating.	Install the fire door as per NFPA 80. 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. The clearance under the bottom of a fire door shall be a maximum of 19 mm. From edges and top shall be limited to a maximum 4.8 mm. All measurement shall be taken from the "pull side" of the door. Any modification of fire doors beyond the job site preparation shall be approved by the door manufacturer.	Within 3 months
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4	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
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5	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. (New building store is open to production floor of Old Building due to floor merging)	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 barrier construction.	Within 3 months
				
6	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy.	Provide defined storage areas and limit the storage arrangement as follows:- For 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 Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months



7	Fire Protection System (Sprinkler)	Sprinkler system installation requires detailed review to confirm compliance with NFPA 13, 14, 20, 22 and RSC technical guideline. Pre-T&CVI of the sprinkler system with common fire pump and sprinkler has been conducted for Old ID_10549, However the building-2 was not part of the inspection.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design submission- within 2 months; Modification if required- within 3 months
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8	Fire Alarm and Detection System	An addressable fire alarm & detection system found installed during inspection day. The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC technical guideline and NFPA 72. Submit 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 Submission within 2 months Installation / modification 3 months
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