# INITIAL FIRE SAFETY INSPECTION REPORT

## Factory Name: Mehnaz Styles & Craft Ltd. (New)

## RSC ID: 24434

**Address: Industry Sl. No.: 56, Ward No: 06, Tongabari, Ashulia, Savar, Dhaka**

**Google Coordinate: 23.898271, 90.323133**

**Other Factories: N/A**


RSC | RMG SUSTAINABILITY COUNCIL

**Inspected By: Nirmal Chandra Sinha and Md. Anisuzzaman**

**Date: 14 June 2022**

## Introduction:

Mehnaz Styles & Craft Ltd. (New); complex was surveyed for fire safety on 14-June-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.

Table 1- summarizes 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 approval.

**Table-1: Findings & Recommendations**

| Sly No. | Category | | Required Action | Remediation Time Frame |
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| F-1 | Fire Rated Construction | The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected opening & penetration.<br><br>Location: Top floor/roof of stair-1, 7th floor of stair-4 & stair-1 and ground floor of stair-2 of Main building | Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels.<br>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. 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 RSC Technical Guidelines (standard) 6.8.3.1. | Within 3 months |


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| F-2 | Fire Rated Construction | Elevator shafts are directly open into the inside of exit enclosure.<br><br>Located: Stair-2 of main building | Modify the elevator shaft as per 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 |
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| F-3 | Fire rated construction. | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.<br><br>Location: Electrical BBT riser , sewage line for male & female toilet of west side on all floor, Packing area near stair-3 on all floor . | 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.<br>Or<br>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-4 | Fire Rated Construction | Store room directly open into exit stair enclosure.<br>Location: 2nd, 3rd, 5th floor of stair-2 & ground floor stair-4 of main building. | Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction as per RSC Technical Guideline (Standard) V1-6.14.3 .<br><br>Provide a 1.5-hr. fire rated door on the exit stair side and a 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 |
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| F-5 | Fire rated construction | Areas used for in-process storage of combustible materials are open to the surrounding occupancy.<br><br>Location: First floor of main building. | Provide defined storage areas and limit the storage arrangement as follows:<br>Maximum height of 2.45 m and maximum area of 23 $m^2$ and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. If sprinkler protected, Maximum height 12 ft (3.66 m)and maximum area of 1000 $ft^2$ (93 $m^2$) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 $ft^2$ (372 $m^2$) of the sprinklered area, whichever is greater.<br>or,<br>Enclose the storage area from the surrounding occupancy with a minimum 1 hour fire rated construction. | Within 3 months |
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| F-6 | Means of Egress | Drinking water treatment plant & drinking water system location at exit stair-4 of top floor and stair -1,3,4 of 6th floor of main building | Remove drinking water treatment plant & drinking water system from exit stair enclosure. | Within 1 month |
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| F-7 | Egress lighting | Manual on-off switch is provided for emergency lighting / exit signage units. Location: IPS of main building | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 1 month |

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| F-8 | Egress lighting (ITM) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the standard. | Inspect, test and maintain the exit sign and emergency lighting system in accordance with the standard. Keep written records on-site. | Within 3 months |
| F-9 | Fire Alarm & Detection System (FADS) | An addressable fire alarm system has installed in the factory building premises. The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test. | Design within 2 months, modification within 4 months (if required). |




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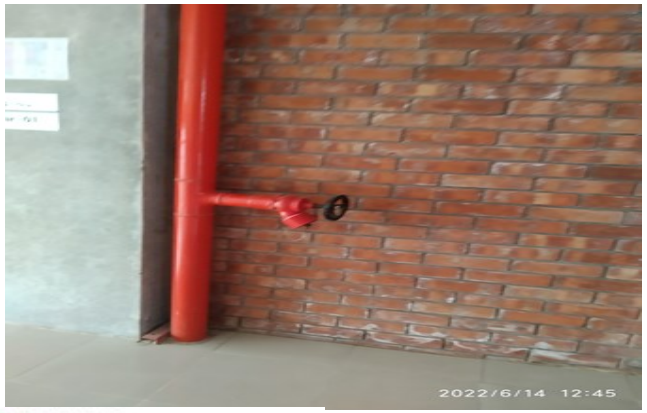
| F-10 | Fire Protection System (Standpipe) | Standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22 & 24 | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test. | Design within 2 months, modification within 6 months (if required). |

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| F-11 | Fire Protection | The high-rise building has an occupied floor greater than 23m (75 ft.). Automatic sprinkler system has installed in the factory building premises. Automatic sprinkler system installation requires to detailed review to confirm compliance with NFPA 13 and RSC Technical Guidelines (Standard) for the buildings in the factory premises. | Provide automatic sprinkler protection installation throughout the building in accordance with NFPA 13. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. | Design within 2 months, modification within 6 months (if required). |
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| F-12 | Fire Protection System (ITM of fire pump) | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per standard. | Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per RSC Technical Guidelines (Standard) and keep written records on-site. | Within 1 Month (after installation). |

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| F-13 | Fire Protection System (ITM of Standpipe) | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per standard. | Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per RSC Technical Guidelines (Standard) and keep written records on-site. | Within 1 Month (after installation). |
| F-14 | 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 standard. | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per RSC Technical Guidelines (Standard). | Within 1 Month (after installation). |
| F-15 | Fire Protection System (ITM of Sprinkler) | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 13,25 or as per standard. | Inspect, test and maintain the standpipe system in accordance with NFPA 13, 25 or as per standard and keep written records on-site. | Within 1 Month (after installation). |
| F-16 | Fire Protection System (ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per standard. | Within 3 months |