

INITIAL FIRE SAFETY INSPECTION REPORT

Majumder Garments Ltd (relocation) (Extension)

RSC ID: 25897

Majumder Center, 113/1, Mudafa Paschim Para, Tongi, Gazipur

23.90137, 90.36749

Other Factories: Majumder Garments Ltd (relocation)(RSC ID-12433)



Inspected By: Hasanat Alamgir Abeer

Date: 16-October-2024

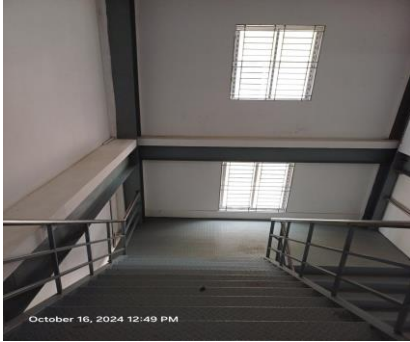
Findings & Recommendations :

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: For Building# 1,2,3

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Building-1_Cutting Section_1st Floor	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. - or, 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-2	Fire Rated Construction	The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Building-1.	The building shall be type-I construction. So, provide required fire rating for the structural elements of the building following BNBC 2020 Part 3 Table 3.1.7 & RSC Technical Guidelines 3.5.4. Consult with a qualified fire protection engineer. Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the passive fire protection.	Within 6 Months
  				
F-3	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies due to toilet block plastic pipes. Location: Building-1_Ground Floor	Provide a minimum 2-hr fire-rated shaft to separate the sanitary pipe 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. Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install	Within 3 Months



F-4	Fire Rated Construction	Storage were observed underneath the cutting tables. Location: Building-1_1st Floor.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with the RSC Technical Guidelines (Standard) section 3.4.2.1.6 or where automatic sprinkler protection is installed. Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft. in width that are used for storage of combustibles.	Within 1 Month
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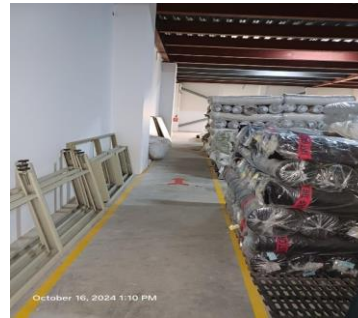


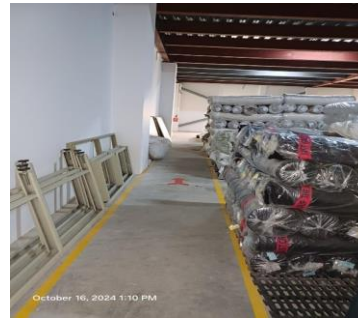
F-5	Means of Egress	The factory has installed fire rated doors for exit stair separation on all floors for all stairs. The datasheets & certificates of installed fire-rated doors will be verified during the next inspection. Location: Building-1.	The factory shall provide datasheets and certificates of installed fire rated doors and their accessories to verify during the next inspection. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 Months
  				

F-6	Means of Egress	Doors width in a means of egress has been found inadequate (found 34 inch) Location: Building-1_Ground floor (Stair-1 &2)	Doors in a means of egress shall have a minimum width of 1 m (39 inch) as per RSC Technical Guidelines Standard 6.5.6.1.2	Within 2 Months
				

F-7	Means of Egress	Exit stair -2 of Building-1 (Two Stroied Shed Building) discharges directly inside the building which is not separated from other occupancies i.e. Loading unloading area. Location: Building-3_Loading-Unloading Shed	A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all of the following are met: (1) Automatic sprinkler protection is provided throughout the level of exit discharge or portion of the level of discharge where separated from non sprinklered portions of the floor by fire barriers with the same fire resistance rating as the exit enclosure. (2) The interior discharge is not through a storage or hazardous occupancy. (3) The entire area of the level of exit discharge is separated from areas below by construction having a fire resistance rating not less than that required for the exit enclosure. (4) The way to the exterior shall be free and unobstructed and shall be readily visible and identifiable from the point of discharge of the interior exit.	Within 3 Months
				

F-8	Means of Egress	Occupant load sign, updated evacuation map were found missing at the required locations at all floors. Location: Building-1	Provide occupant load sign, evacuation plans at required locations of the building. Evacuation maps shall be posted at the entrance to each exit stair.	Within 1 Month
				
F-9	Means of Egress	Stair designation sign were found missing at the required locations on all floors. Location: Building-1.	Provide stair designation signs at required locations.	Within 1 Month
F-10	Means of Egress	Directional exit signage was not provided along the path of egress where there is a change in the direction for the path of travel and the direction to an exit is not obvious. Location: On ground and 1st floor of Building-1.	Provide directional exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 Month



 				
F-11	Human Element Programme	The required no smoking signs are not present in the factory	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 Month

F-12	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards. Location: Building-1, 2, & 3.	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/modification, 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-13	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-14	Fire Protection System(ITM of 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 on-site, in accordance with NFPA 10 and RSC standards.	Within 1 Month after installation.
F-15	Fire Protection System(ITM of Emergency Lighting System)	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 Month after installation.