

INITIAL FIRE SAFETY INSPECTION REPORT

Mondol Fabrics Ltd. (Extension)

RSC ID: 24753

ADDRESS: Nayapara, Kashimpur, Gazipur

Other Factories: Montex Fabric Ltd(23966) & Mondol Fabric Ltd(10861) & Montex Fabrics Ltd. (Extension)(ID-24561)



Inspected By: Md. Anisuzzaman & Md. Kawsar Rubaiat

Date: 07th-November- 2023

Fire Safety Inspection Report

Mondol Fabrics Ltd. (Extension)

Introduction:

Mondol Fabrics Ltd. (Extension); complex was surveyed for fire safety on **07/11/2023** 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): Factory Building name(s): There is one structure under this ID-24753 which are listed below:

1. 8 Storied Building-08, RCC Structure(Construction: Feb-2014 to Jan-2020 & Occupied: May-2020,total area=19104SQM, Design approved by Gazipur Pourashava / Feb 2013, Interim construction)

Factory Address: Nayapara, Kashimpur, Gazipur

Points of contact:

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Findings & Recommendations :

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: Finding & recommendation for 8 storied building-08

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical cable/BBT riser, steam pipe line & unprotected opening between 5th and 6th 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. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor .	Within 3months
				

F-2	Fire rated construction	Store rooms are not properly separated due to unprotected openings & penetrations. Location: Including but not limited to 2nd , 3rd & 4th floor of the building-8	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 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.	Within 3 months
  				
F-3	Fire Rated Construction	Two Elevator shafts directly open into the inside of the exit enclosure & three elevators open into the production floor without proper separation. Location: Exit stair-3 & Exit stair-2 & three elevator open inside floor east side	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. So, ensure the lift shaft is 2-hr fire rated including opening protection with similar rating.	Within 3 months

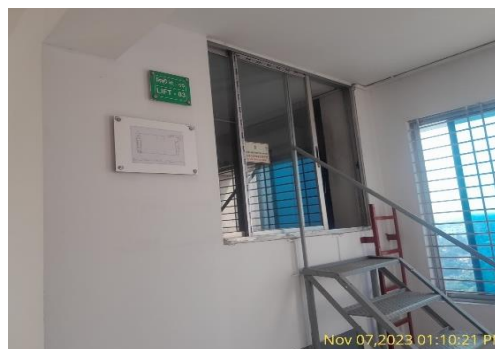


F-4	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Including but not limited to 2nd, 4th & 5th floor of the building-8	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² 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 ft² (93 m²) 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 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction	Within 3 months
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F-5	Fire Rated Construction	Store room directly opens into exit stair enclosure. Location: 2nd floor & 7th floor of the building-08	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 . 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
				

F-6	Fire Rated Construction	Chemical store room is not properly separated due to unprotected opening & penetrations. Location: Ground & 3rd floor of the building -8	Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area. ** As per BNBC, chemical storage room will be Type 1 construction. Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.	Within 3 months
 				
F-7	Fire Rated Construction	Lift machine room was not properly fire separated due to unprotected opening & penetration. Location: North side(stair-3) of the building-08	Seal all penetrations and openings in the wall (full thickness of the wall) assemblies by minimum 2-hr fire-rated materials to maintain the required fire-resistance rating.	Within 3 months



F-8	Mean of Egress	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction due to non-functional fire doors & penetrations. Location: building-8	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 90 minutes opening protection. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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 Guideline (Standard) V1 6.8.3.1.	Within 3 months
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F-9	Means of Egress	Intermediate handrails were not provided on Stair-1.	Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 month
 				

F-10	Means of Egress	Guard rail is not provided as per standard, which created falling hazards Location: East side of the elevator area & north side of corridor area.	Provide guard rail on open side with minimum height 42 inch. Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.	1 month
 				
F-11	Means of Egress	The raised walkway(connecting bridge-building to building) is not separated from building -8 on the 4th floors due to unseal penetration & opening.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings & penetrations to separate the exit stairs from work areas and other building spaces . 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.	Within 3 months



F-12	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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
 				

F-13	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	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-14	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. 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 1 month and modification within 3 months. (If required).



F-15	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation.
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F-16	Fire Protection System(Standpipe & Sprinkler)	Standpipe & Sprinkler system installation requires detailed review to confirm compliance with NFPA- 13,14 , 20 ,22 & 24 or as per RSC standard.	Submit the Sprinkler & standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler & standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 13, 14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 1 month and modification within 3 months (If required).
				
F-17	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Fire pump, Standpipe & Sprinkler system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe & sprinkler system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after installation.

F-18	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 after installation.
F-19	Emergency Lighting (ITM of Emergency Lighting)	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