

FIRE SAFETY INSPECTION REPORT

Cotton Field (BD) Ltd. (Extension)

Factory ID: 24768

Plot- 42/3, Rajnagar, Sataish Road, Tongi, Gazipur.

23.920433, 90.364090

Other Factories: Cotton Field (BD) Ltd (Relocated) – (ID 24228)



Inspected by: Md. Rakibul Alam & Nainin Nowrose

Date: 01 October 2023



Fire Safety Inspection Summary Report

Cotton Field (BD) Ltd. (Extension)

Summary

Cotton Field (BD) Ltd. (Extension) complex was surveyed for fire safety on 1 October 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.

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.

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. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Protection	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 then approval/acceptance test.	Drawing Within 2 months Install Within 3 months
 				
F-2	Fire Protection	Inspection, testing and maintenance of the automatic fire alarm system is not in Accordance with NFPA 72.	Inspect, test and maintain the automatic fire alarm system and keep written records on-site, in Accordance with NFPA 72.	Within 1 month



F-3	Fire Rated Construction	Liquefied or compressed gas cylinders are located within the factory.	The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building as per RSC Technical Guidelines (Standard) .	Within 3 months
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Alternatively

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.





F-4	Fire Rated Construction	Unsealed utility pipe and riser penetration is located in the fire-rated floor/ceiling assemblies Note: Fire collar has been Provided however complete documentation Was not available.	Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.	Within 3 months
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F-5	Fire Rated Construction	Exit stair not separated from ETP area.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 1- hr fire-rated construction. Provide minimum 1- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation (5" wall) for 3 or fewer story building. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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 6.8.3.1.	Within 1 month
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F-6	Egress	Fire evacuation maps is not posted at the entrance of the exits at 1st floor.	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs and maps shall be updated regularly when required.	Within 1 month
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F-7	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures.	Seal all penetrations and openings in exit stair enclosure and separation walls to maintain the required fire separation. Penetration is prohibited into and through an exit enclosure.	Within 2 months
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F-8	Egress 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 supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
F-9	Fire Rated Construction	Dining and prayer located at ground floor where ETP located at ground floor and store and printing is in 1 st floor.	Remove the dining and prayer from the building as assembly occupancy (I) is not permitted with garments (G2) and storage (H2) occupancies as per BNBC 2020, table-3.1.1 and 3.2.1. Factory could provide dining and prayer facilities in a dedicated dining building (if required).	Within 3 months
F-10	Egress	Exit doors width was less than 1 m (39 in) at ETP section.	Doors in a means of egress shall have a minimum width of 1 m (39 in.) as per RSC 6.5.6.1.3.	Within 1 month



F-11	Egress	Handrail is provided on both sides of the exit stairs without intermediate guard rails as per RSC 6.12.2.3.	New and interim 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
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