

# INITIAL FIRE SAFETY INSPECTION REPORT

## Apex Textile Printing Mills (Extension)

RSC ID: 24774

Ward No. 07, Holding No. D-84, Chandora, Kailakoir Pouroshova, Kaliakoir, Gazipur

Geographic coordinates (Latitude and Longitude): 24.043999716573605, 90.26079073752179

### Other Factories:

1. Apex Textile Printing Mills (ID: 9437)
2. Apex Lingerie Ltd (ID: 9436)
3. Apex Spining & knitting Mills (ID: 9472)
4. Apex Yarn Dyeing Ltd. (ID: 24240)



Inspected By: Shahina Imam & Mahbub Alam Sami

Date: 17 Dec 2023

# Fire Safety Inspection Report

## Apex Textile Printing Mills (Extension)

### Introduction:

**Apex Textile Printing Mills (Extension)** Complex was surveyed for fire safety on **17 December, 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.




**Table-1: Finding & recommendation**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas , storage and door non functional on each floor by fire rated construction.	Provide minimum 2-hr rated fire wall and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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.	Within 3 Months



F-2	Fire-Rated Construction	Elevator shafts are open the inside the floor due to penetration.	Ensure minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with 2-hr fire rated construction barrier and 1.5-hr fire rated doors.	Within 3 Months
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F-3	Fire Rated Construction	Store 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 side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 Months
				
F-4	Fire Rated Construction	Penetration observed from 2nd floor to Ground floor egress route due to conveyor belt.	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.	Within 3 Months



F-5	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies.	Provide a minimum 2-hr fire rated shaft to separate the utility risers 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	Within 3 Months
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F-6	Means of egress	Aisles marks not provided at all the required locations.	Provide 36 in unobstructed aisles marks at all the required egress paths.	Within 1 Month
				
F-7	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 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-8	Egress Lighting	<p>Illuminated directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p><b>Location:</b> Several location</p>	<p>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.</p>	<p>Within 1 Month</p>
F-9	ITM of Emergency light and Exit Sign	<p>Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC Technical standard.</p>	<p>Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical standard. Keep written records on-site.</p>	<p>Within 1 Month after installation</p>

F-10	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	<p>Design &amp; Installation of Fire Alarm &amp; 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.</p> <p>After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection &amp; alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.</p>	Design Review within 2 months and installation within 4 months.
F-11	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-12	Fire Protection System (Standpipe & Automatic Sprinkler System)	Fire Protection system installation requires detailed review to confirm compliance with NFPA 13,14, 20, 22,24 and RSC standards.	Design & Installation Fire Protection system shall be in accordance with RSC standard. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design Review within 2 months and installation within 4 months.



F-13	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.
F-14	Fire Protection System(ITM of Sprinkler)	Inspection, testing, and maintenance for the automatic fire sprinkler system is not in accordance with NFPA 13 and 25 or as per RSC standard.	Inspect, test and maintain the fire pump and standpipe system, and keep written records on-site, in accordance with NFPA 13 and 25 or as per RSC standard.	Within 1 Month after installation.
F-15	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the standpipe system is not in accordance with NFPA 13 and 25 or as per RSC standard.	Inspect, test and maintain the fire pump and standpipe system, and keep written records on-site, in accordance with NFPA 14 and 25 or as per RSC standard.	Within 1 Month after installation.

F-16	ITM of Fire 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 onsite, in accordance with NFPA 10 and The RSC Technical Guidelines (Standard).	Within 3 Months
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