

INITIAL FIRE SAFETY INSPECTION REPORT

Ayesha Clothing Company Ltd. (Printing Unit -2)

RSC ID: 24787

Bangobondhu Road, Tongabari, Ashulia, Savar, Dhaka

Other Factories: Ayesha Clothing Company Ltd. (Printing Unit) (ID-12499)



Inspected By: Nirmal Chandra Sinha & Nainin Nowrose

Date: 14 August 2023

Fire Safety Inspection Report

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Introduction:

Ayesha Clothing Company Ltd. (Printing Unit -2) complex was surveyed for fire safety on 14/08/2023 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): There are total six (6) structures in the premises under this ID. Those are-

1. Printing Unit-2: 5 Storied RCC Building which is declared as 4 storied RCC building with steel structure mezzanine floor. But the mezzanine floor has been considered as full floor (1st floor) because the area has been found more than 1/3 of the floor area.

2. Driver Rest Room (Single Story PRE-FEBRICATED)

3. Screen Wash Room (Single Story PRE-FEBRICATED)

4. Fabric Inspection Machine Room (Single Story PRE-FEBRICATED)

5. RMS Room (Single Story R.C.C BUILDING)

6. Guard Room (Single Story R.C.C BUILDING)

Factory Address: Bangobondhu Road, Tongabari, Ashulia, Savar, Dhaka.

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 review.


Table-1:


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire-Rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Electric cable riser.</p> <p>Location: Printing Unit-2 Building.</p>	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling: minimum 3 hr.) assemblies by third-party certified fire rated materials to maintain the fire resistance rating. Provide a minimum 3-hr fire rated shaft to separate the utility risers from each floor if required.</p> <p>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.</p>	Within 3 months



F-02	Fire-Rated Construction	<p>The exit stair enclosures are not separated from work areas and other spaces by fire-rated construction due to unprotected openings on 1st floor and non functionality of fire doors at other floors.</p> <p>Location: Printing Unit-2 Building.</p>	<p>Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5 -hr. fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels.</p> <p>Ensure that the fire doors are self-closing, 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.</p>	Within 3 months
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F-03	Fire-Rated Construction	<p>Openings from exit enclosures to storage areas was not provided with vestibules on 1st floor.</p> <p>Located: Printing Unit-2 Building.</p>	<p>Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms and boiler rooms shall be provided with vestibules in accordance with RSC Technical Guideline (Standard)-6.14.3.</p> <p>Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storeroom/storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p>	Within 3 months
				

F-04	Fire-Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures through cable riser. Location: Ground floor of Printing Unit-2 Building.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
				
F-05	Fire Rated Construction	Dining is not separated by fire rated construction from other production occupancies. Location: 1st & 4th floor of Printing Unit-2 Building.	Dining shall be separated by minimum 3-hr fire rated construction. Provide at least two means of exits leading directly to the stairs in two independent and different direction. If factory change the occupancy bellow and above the dining floor then need to meet the requirement of BNBC 2006, part 4 chapter 3 section 3.21.3 and table 3.2.1.	Within 3 months

F-06	Fire Rated Construction	<p>The main structural elements of the 1st floor are constructed by steel which is non-rated and were found in exposed condition without any fire protection (Interim Structure). Location: 1st floor of Printing Unit-2 Building.</p>	<p>The building is interim structure where the 1st floor is steel structure which shall be type-I or II construction. So, provide require rating in the structural elements of the buildings following table 3.2.4, 3.1.9 and 3.3.1 of BNBC-2006.</p>	Within 6 months

F-07	Means of Egress	<p>Aisles were not clearly marked in some locations. Location: Printing Unit-2 Building.</p>	<p>Provide minimum aisle widths of 36-in and mark properly.</p>	<p>Within 1 month</p>

F-08	Fire Alarm and Detection System (FADS)	The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC technical guidelines (standard).	<p>Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review.</p> <p>Once reviewed, install or modify the fire detection and alarm system (where required) throughout the building in accordance with RSC technical guidelines (standard) and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.</p>	Design Review within 2 months and modification within 4 months (If require).
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F-09	Inspection, Testing and Maintenance of FADS.	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with NFPA 72 and RSC Technical Guideline (Standard).	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-10	Fire Protection System (SUPS)	Standpipe system and fire pump installation requires detailed review to confirm compliance with NFPA 14, 20, 22, 24 and RSC Technical Guideline (Standard).	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 14 and 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design Review within 2 months and modification within 4 months (If require).



F-11	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 25 or as per RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month after installation.
F-12	Fire Protection System(ITM of Fire Pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20 or as per RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 or as per RSC Technical Guideline (Standard).	Within 1 month after installation