

INITIAL FIRE SAFETY INSPECTION REPORT

Arkay Knit Dyeing Mills Ltd

RSC ID: 24321

Bangobandhu Road, Tongabari, Ashulia, Dhaka.

Other Factories: None



Inspected By: Pantha Pallob Das & Yusuf Ahmed

Date: 28-Mar-2022

Introduction:

Arkay Knit Dyeing Mills Ltd. complex was surveyed for fire safety on 28-Mar-2022 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 3 buildings in the premises under the ID 24321. The buildings are:

- i) 6-storied Main Production (Building 1)
- ii) Utility and Day Care with Fire Pump room (Building-2). Part-A, Part-B structurally connected. Part-A : 2-storied and Part-B : 3-storied.
- iii) ETP (Building-5)

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 review.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit discharge path (Passageway) for stair-1 was not fire separated with mezzanine floor.	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 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-2	Fire Rated Construction	Dining with capacity was fire separated with adjacent store room but no direct access to rated stairs or passageway was provided. Occupants of dining have to pass through a corridor which was not fire separated with cutting section. Location: 5th floor.	Assemblies of Occupancy (E3, E4 and E5) shall have at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different direction.	Within 3 months
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F-3	Fire Rated Construction	Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3. Location: Stair-1 & 2.	As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0, 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.	Within 3 months
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F-4	Fire Alarm & Detection System (FADS)	Fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify (if required) the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design within 2 months, Install within 4 months.
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F-5	Fire Suppression System (Sprinkler and Standpipe)	Sprinkler system is not mandatory for the building based on height and type of construction but the system installed throughout the building along with standpipe system. However, both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to be done as per the reviewed design and NFPA-14 Upon review & modification (if required) the owner shall verify the system by himself and apply RSC for final acceptance testing.	Design within 2 months, Install within 4 months.
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