

INITIAL FIRE SAFETY INSPECTION REPORT

Yasin Knittex Ind. Ltd. (Extended building)

RSC ID: 24941

South Panishail zerani bazar, BKSP, Gazipur, Dhaka

Co-ordinate: 23.990003, 90.258280

Other Factories: Yasin Knittex Ind. Ltd. (ID: 9204), Auko-Tex Limited (ID: 9203), Auko-Tex Limited (Extended Building) (ID: 24940)



Inspected By: Kazi Raian Mahmood

Date: 23-Jan-2024

Fire Safety Inspection Report

Yasin Knittex Ind. Ltd. (Extended building)

Introduction:

Yasin Knittex Ind. Ltd. (Extended building) complex was surveyed for fire safety on **23-Jan-2024** 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): The factory compound has a total twelve (12) buildings. 10 nos buildings were covered under RSC ID : 9203, 9204 and 24940. The remaining two (02) buildings are as below:

1. Batch Shed; Single Storied Steel Shed

Construction duration: January, 2014 to December, 2014. Occupied: January, 2015. **(INTERIM CONSTRUCTION)**

2. Washing & Boiler Shed ; Single storied Steel Shed.

Construction duration: January, 2014 to December, 2014. Occupied: January, 2015 **(INTERIM CONSTRUCTION)**

Factory Address: South Panishail zerani bazar, BKSP, Gazipur, Dhaka

Points of contact:

1. Name: Md. Abul Basher

Designation: Deputy General Manager, Operation

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Email: basher@auko-texgroup.com

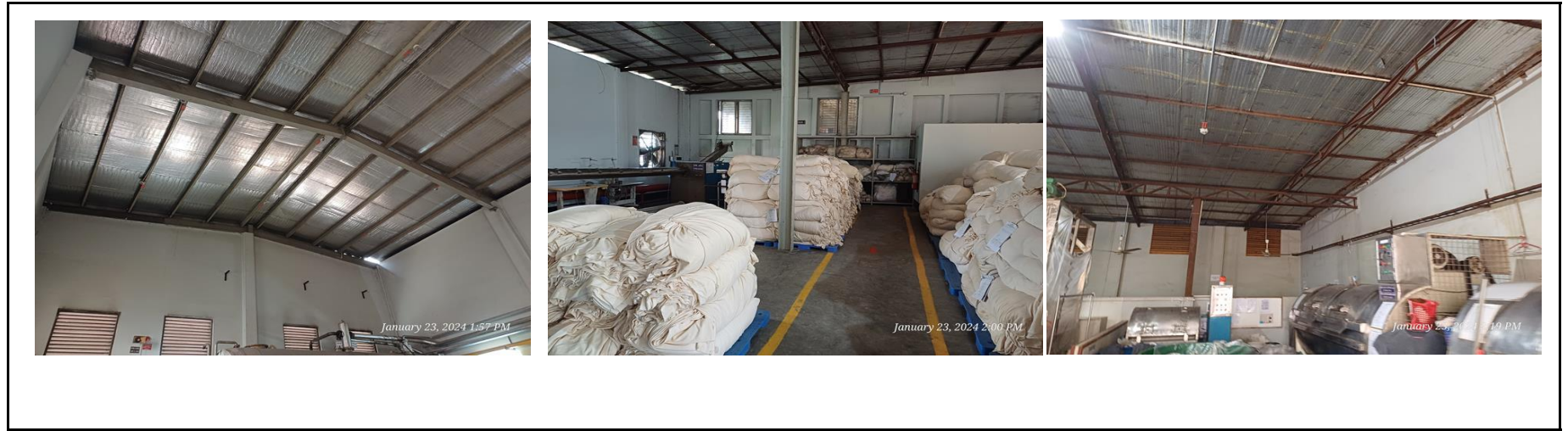
2. Name: Mohammad Babul Fakir

Designation: Assistant General Manager, Admin

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Email: babul@auko-texgroup.com

Findings & Recommendations :				
Table 1 summarize the fire safety non-compliant issues identified during the inspection for both Batch Shed and Washing & Boiler Shed. 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	Washing & Boiler shed and Batch shed constructed during interim period (January 2014) are steel structures and main structural element of the buildings are constructed by steel which is appears to be nonrated and were found in exposed condition. Location: Washing & Boiler Shed and Batch Shed	Interim building shall be type-1 or type-2 construction as per Table 3.2.4 of BNBC-2006. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 6 months



F-2	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancies (Washing shed & ETP). Location: Batch shed.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
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F-3	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Washing shed and Batch Shed.	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
 				

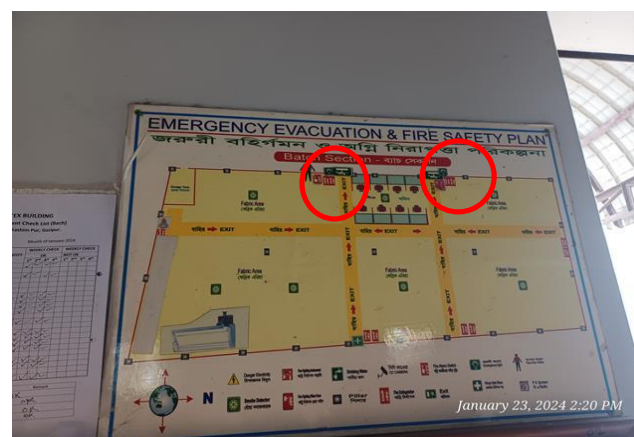
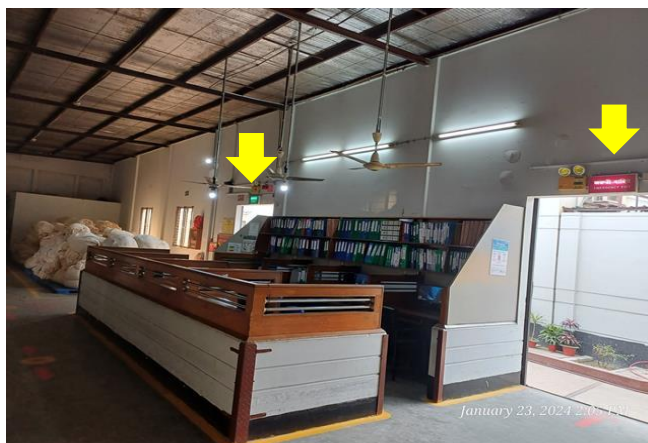
F-4	Fire Rated Construction	CNG cylinder storage trucks have been observed in the open area without proper fire separation from the surrounding occupancies (Batch shed and Boiler Shed).	LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries 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.	Within 3 Months
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F-5	Fire Rated Construction	CNG pressure controller station and Diesel tank (with 6000 liter of capacity) were observed beside the boiler shed without proper fire separation.	Separate the diesel storage by enclosing it in a room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep MSDS of Diesel in the storage area. CNG Pressure Control station is permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the conditions with CNG storage.	Within 3 Months
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F-6	Means of Egress	Exits in the batch shed are not remotely located from each other. Location: Batch Shed	Modify exit arrangement or Provide additional exit(s) or Provide automatic sprinkler system throughout the building as per NFPA 13	Within 3 Months
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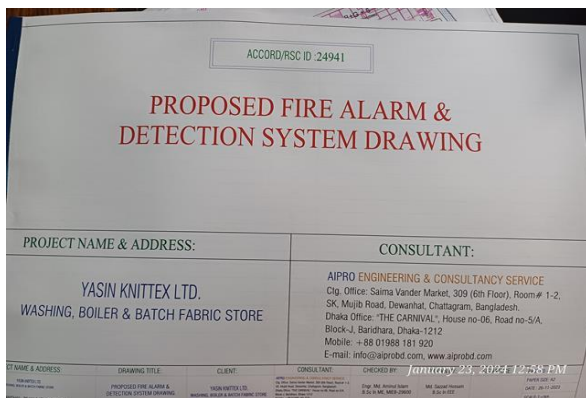
F-7	Means of Egress	Sliding type doors have been provided along the means of egress. Location: Batch Shed	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 months
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F-8	Fire Rated Construction	Emergency light and exits sign were found non-functional in the washing and boiler shed.	Regularly inspect all emergency lighting system as per RSC standard and replace/install lights as needed to illuminate signs.	Within 1 Months
 				

F-9	Means of Egress	Directional Exit signage was not provided along the path of egress where there is a change in the direction for the path of travel and the direction to an exit is not obvious. Location: Batch Shed, Washing & Boiler Shed	Provide directional exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
  				

F-10	Fire Alarm & Detection system	Automatic fire alarm and detection system has been installed. FADS required a detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: Batch shed, Washing & Boiler Shed	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings 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 Review within 2 months and installation/modification within 4 months
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F-11	Fire Alarm & Detection system (ITM of FADS)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site	Within 1 month (after installation)
F-12	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 1 month
F-13	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month
F-14	Means of Egress	Updated evacuation map has not been found in both the structures.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month