

INITIAL FIRE SAFETY INSPECTION REPORT

ESQUIRE SWEATERS LTD. (EXTENSION)

RSC ID: 25993

Latitude: 23°37'58.6"N . Longitude: 90°29'03.2"E

Address: Hossain Ahmed Road, Fatullah, Narayanganj-1400.

Other Factories: ESQUIRE SWEATERS LTD.(11890)



Inspected By: Mohammad Anayet Hossain

Date: 16-February-2025

Fire Safety Inspection Report

ESQUIRE SWEATERS LTD. (EXTENSION). (ID-25993)

Introduction:

ESQUIRE SWEATERS LTD. (EXTENSION) complex was surveyed for fire safety on **16-Feb-2025** 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

There are total 6 structures covered under this RSC ID 25993. Among these no one structure is for production and all the six structures are ancillary. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Security Dormitory	Jun-2010 to Jul-2010	No Approved/permit drawing was available during inspection.	Aug-2010	Single Storied RCC Building	Existing
2	Wastage Store	Apr-2016 to Jul-2016		Aug-2016	Single Storied Steel Shed	Interim
3	Dining and Yarn Store	Jan-2020 to Mar-2020		May-2022	Single Storied Steel Shed	Interim
4	Fire Pump Room and Water Reservoir	Jan-2022 to Apr-2022		May-2022	Single Storied Building with Steel Roof	New
5	ETP (B+G+1)	Mar-2024 to Sep-2024		Oct-2024	Two storied RCC Building with Basement	New
6	RMS & Security Office	Jan-2016 to Mar-2016		Apr-2016	Single Storied RCC Building	Interim

Factory Address: Hossain Ahmed Road, Fatullah, Narayanganj-1400, Bangladesh.

Points of contact:


Md. Shamim Hasan
Manager - Admin, HR & Compliance
+8801719781894
Mail: mail@esquiresweaters.com


Md. Delwar Hossain
Engineer
+8801714013434

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: All structures under this ID


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Means of Egress	<p>Collapsible/sliding/shutter type doors have provided along means of egress [building exits].</p> <p>Location: Wastage Store Shed.</p>	<p>Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type.</p> <p>Roll-down and sliding gates and shutters shall not be allowed.</p> <p>Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p>	Within 1 month
				

F-02	Means of Egress	<p>The exterior exit stair is not separated from the building.</p> <p>Location: Two storied ETP building.</p>	<p>Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad), the building exterior walls within 3050 mm (10 ft) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hr. in accordance with section 6.3.1.3 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>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
				
F-03	Means of Egress	<p>Stair clear width was found less than 60 in.</p> <p>Location: Two storied ETP building.</p>	<p>Stairs shall have a minimum clear width of 60 in. in for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6.</p>	Within 3 months



F-04	Fire Rated Construction	<p>The main structural element of the interim building which is non-rated construction and were found in exposed condition without any fire protection.</p> <p>As per RSC Technical Guideline and BNBC 2006, The fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020.</p> <p>Location: Dining and Yarn Store Shed, Wastage Store Shed.</p>	<p>The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1.</p> <p>Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.</p>	Within 6 months
------	-------------------------	--	---	-----------------

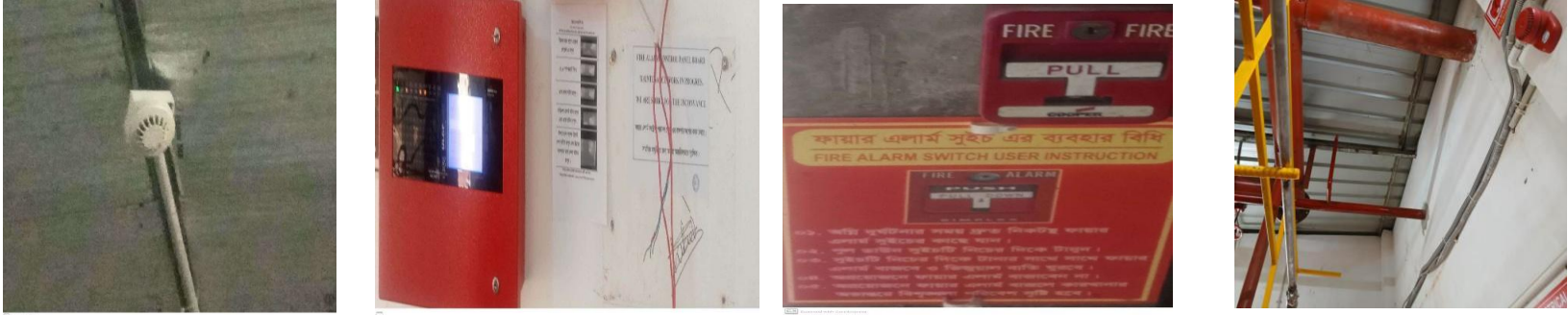
					
F-05	Fire Rated Construction	<p>The required fire separation distance does not comply with the requirements of BNBC 2006.</p> <p>Location: Dining and Yarn Store Shed, Wastage Store Shed.</p>	<p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.</p>	Within 6 months	
					

F-06	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.</p> <p>Location: Dining and Yarn Store Shed, Wastage Store Shed.</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).</p>	Within 3 months
				
F-07	Fire Rated Construction	<p>Dining (E4) area is not separated from store (Yarn store) with fire rated assemblies.</p> <p>Location: Dining and Yarn Store Shed.</p>	<p>Separate the dining area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations.</p>	Within 3 months



F-8	Egress Lighting	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All building & shed.</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>	Within 1 month
F-9	Egress Lighting	<p>Exit sign not provided at exit.</p> <p>Location: All building & shed.</p>	<p>Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p>	Within 1 month

F-10	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: All building & shed.</p>	<p>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.</p>	Within 3 months
F-11	Means of Egress	<p>Building did not have occupant load signs at required locations.</p> <p>Location: All building & shed.</p>	<p>Post the occupant load for every assembly and floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.</p>	Within 1 month
F-12	Means of Egress	<p>Updated Fire evacuation map is not posted at the entrance of all exit.</p> <p>Location: All building & shed.</p>	<p>Fire evacuation maps shall be posted at the entrance to each exit. Evacuation map shall reflect the actual floor condition.</p>	Within 1 month
F-13	Inspection, Testing & Maintenance (Egress Lighting)	<p>Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard).</p>	<p>Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.</p>	Within 1 month

F-14	Fire Alarm & Detection System (FADS)	<p>An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: All building & shed.</p>	<p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	<p>Design Review within 2 months and installation/modification within 4 months.</p>
				
F-15	Inspection, Testing & Maintenance (FADS)	<p>Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).</p> <p>Location : All building & shed.</p>	<p>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.</p>	<p>Within 1 month (after installation)</p>

F-16	Inspection, Testing & Maintenance (Fire Extinguisher)	<p>Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.</p> <p>Location: All building & shed.</p>	<p>Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC Technical Guidelines (Standard).</p>	Within 1 month
------	---	--	--	----------------