INITIAL FIRE SAFETY INSPECTION REPORT

York Composite Ltd

RSC ID: 25776

23.697680, 90.528022

Plot# 08,09,10 BSCIC Industrial Estate, Kantchpur, Sonargoan, Narayangonj

Other Factory : None

RSC RMG SUSTAINABILITY COUNCIL

Inspected By: Shahina Imam, Muntasir Ahmad Nasif
Date: 02-July-2024

Fire Safety Inspection Report

York Composite Ltd

Introduction:

York Composite Ltd. complex was surveyed for fire safety on **02-July-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):

Sl	Building Name & Type of Structure	Year of Construction, Occupying & Approval	Type of Construction	Floor Area
01	*Name: Building-1, Main Building* *Type: B+G+M+Partially 6 Storied RCC Structure (Proposed B+G+M+9)*	*Construction year : Apr-2017 to Continuing .* *Occupied year : Feb-2020* *Approval Date: Dec-2017* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Per Floor: 17363 sft* *Total Area: 127,698 sft*
02	*Name: Building-2, Utility Building* *Type: Two Storied RCC (G+1)*	*Construction year : Jan-2021 to Dec-2021.* *Occupied year : Dec-2021* *Approval Date: Jun-2022* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 1731 sft*
03	*Name: Building-3, ETP building* *Type: Two Storied RCC (G+1)*	*Construction year : Jan-2013 to Dec-2013.* *Occupied year : Dec-2013* *Approval Date: Jan-2013* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 5621 sft*
04	*Name: Shed- 1, Boiler Shed* *Type: Single Storied Steel Structure*	*Construction year : Jan-2019 to Aug-2019.* *Occupied year : Aug-2019* *Approval Date: Jun-2022* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 1233 sft*
05	*Name: Shed- 2, Yarn Store Shed* *Type: Single Storied Steel Structure*	*Construction year : Jan-2019 to Aug-2019.* *Occupied year : Aug-2019* *Approval Date: Jun-2022* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 5054 sft*
06	*Name: Shed- 3, Child Care Room* *Type: Single Storied Steel Structure*	*Construction year : Jan-2019 to Aug-2019.* *Occupied year : Aug-2019* *Approval Date: Jun-2022* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 457 sft*
07	*Name: Shed- 4, RMS Shed* *Type: Single Storied Steel Structure*	*Construction year : Jan-2019 to Aug-2019.* *Occupied year : Aug-2019* *Approval Date: Jun-2022* *Approval Authority: BSCIC Dhaka.*	*Interim Construction*	*Total Area: 200 sft*

08	*Name: Shed- 5, Security Shed* *Type: Single Storied Steel Structure*	*Construction year : Feb-2013 to Mar-2013.* *Occupied year : July-2022* *Approval Date: Jan-2013* *Approval Authority: Gazipur City Corporation*	*Interim Construction*	*Total Area: 200 sft*

Factory Address: Plot# 08,09,10 BSCIC Industrial Estate, Kantchpur, Sonargoan, Narayangonj

Points of contact:

Name:	Faisal Ahmed Talukder	Hasan Taufiqur Rahman
Designation:	Factory Admin Manager	Manager HR & Compliance
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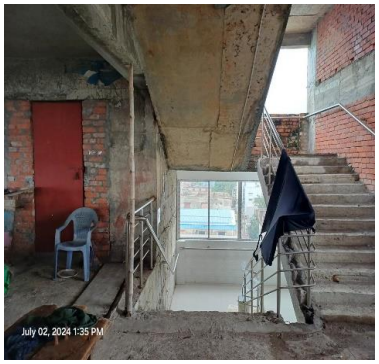
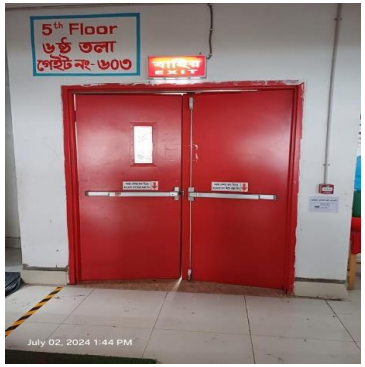
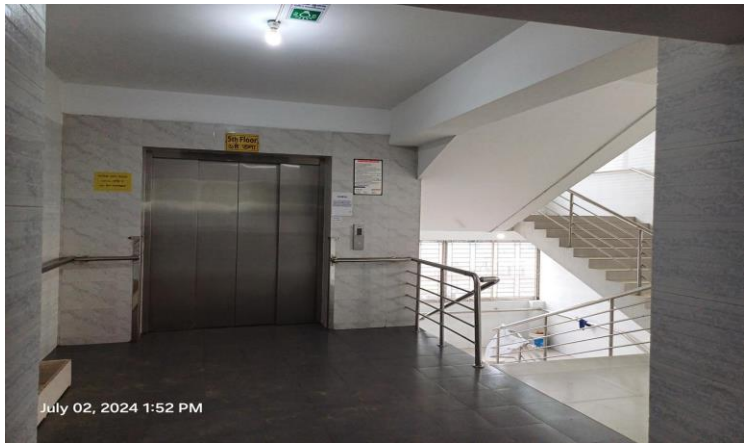
E-Mail:	york@yorkbd.com	toufiq@yorkbd.com

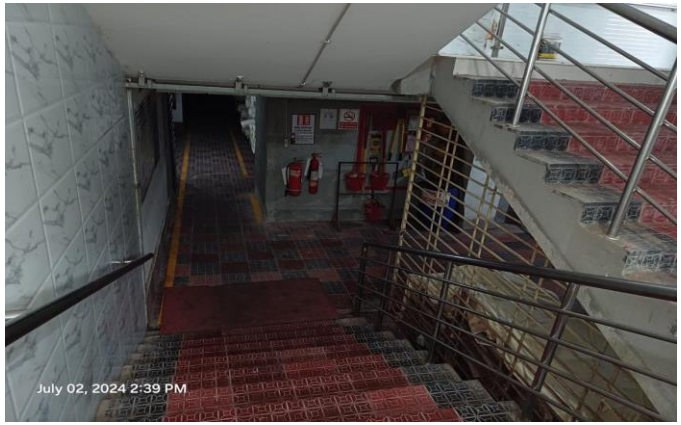
Table-1: Finding & Recommendation

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas due to unprotected opening from basement store area, Mezzanine, others floors, and non functional door, penetration of electric cable tray.	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





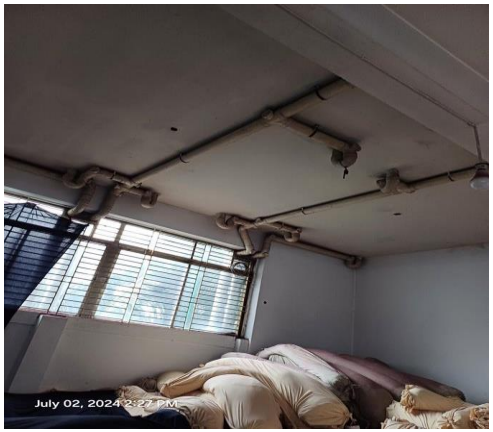
F-2	Fire-Rated Construction	Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3.	An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure. (As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0) Ensure the lift shaft is enclosed by a minimum 3-hour fire rated wall with minimum 2.0-hr fire rated door. Recommended to follow "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 Months
				

F-3	Fire Rated Construction	Store room discharged directly into the exit stair enclosures. Location: Basement	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	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas & floors due to unprotected opening. Location: 2nd floor Fabric store, Fabric warehouse.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. Store rooms directly discharge in exit stair enclosure shall be separated in accordance with the RSC Technical Guidelines (Standard) Section 6.14.3	Within 3 Months

F-5	Fire Rated Construction	Egress court serving exit stair 01 & 03 & 2 were found less than 10 ft & opening are not protected by fire rated construction.	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 Months

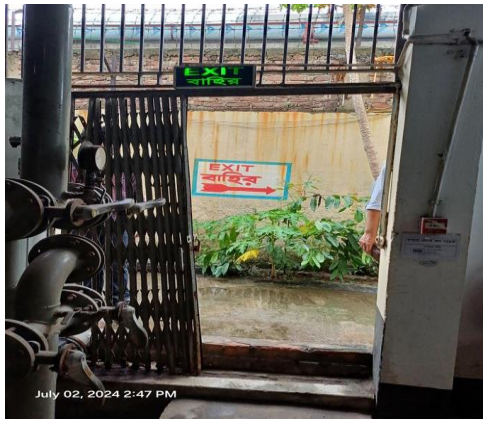
F-6	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: 2nd floor	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m2. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m2. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 Months

F-7	Fire Rated Construction	The shed-2 are interim constructed where structural members (Roof) are constructed by steel and have been found in exposed condition without any fire protection.	The Shed shall be type-1 or type-2 construction in accordance with the RSC Technical Guidelines (Standard) 3.5.2.1 and BNBC Part-2, Table-3.2.4. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the RSC Technical Guidelines (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-8	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Followings are the description of openings or penetrations indicating specific locations: 1. PVC pipe observed throughout at several floors..	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-9	Means of Egress	Building are interim construction where width of exit stair-3 is less than 1.5 m (60 in).	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with as per RSC Technical guideline (standard V1) 6.5.6.2.1.Or, If Other exits meet exit capacity, travel distance, common path of travel, dead end, exit remoteness & other exit stair requirements as per RSC Technical guideline (standard V1), these exits may eliminate from emergency exit.	Within 3 Months

F-10	Means of Egress	Egress doors and gates with locking features are provided at main exits and store, utility areas. All doors and gates were open and unlocked during inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and RSC Technical Guidelines (Standard) Part 6 Section 6.8.2	Immediately
F-11	Means of Egress	Aisles are found less than 36 inches and obstructed at several location.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.) and free from storage.	Immediately

F-12	Mean of Egress	Storage was observed inside exit stair enclosure	Remove all storage from exit stair enclosures.	Immediately

F-13	Mean of Egress	Collapsible and sliding doors are provided at Collar cap room, 3rd floor, Mezzanine, 4th floor, basement and ground floor main exit of main building and ETP building along egress routes.	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 Month
				
F-14	Mean of Egress	Handrails are not provided on both sides roof top stair-2, Ground floor loading areas, ETP building.	Provide handrails on both sides of the exit stair and ramp. Existing handrails shall have a minimum height of 30 inch and a maximum height of 44 inch. as measured from the leading edge of the tread.	Within 3 Months

F-15	Mean of Egress	The occupiable roof was not provided with an adequate guard rail.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 1 Month

F-16	Mean of Egress	Single exit provided at basement where travel distance not meet the requirement.	Reconfigure the egress arrangement to reduce the maximum travel distance to not more than 23 m (75 ft.) or 30 m (100 ft.).	Within 3 Months
F-17	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-18	Egress Lighting	Illuminated directional signs are not provided where direction of the path of travel to an exit has changed. **Location:** Fabric warehouse and Finished Goods area of 2nd Floor.	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.	Within 1 Month
F-19	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC Technical standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical standard. Keep written records on-site.	Within 1 Month after installation

F-20	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	Design & Installation of Fire Alarm & 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. After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 2 months and installation within 4 months.
F-21	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-22	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 6 months.
F-23	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-24	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-25	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the standpipe system is not in accordance with NFPA 14 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-26	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