

INITIAL FIRE SAFETY INSPECTION REPORT

Taharat Composite Ltd. (Extension) (previously Fabrica Knit Composite Ltd)

RSC ID: 24767

(Ahamed Plaza) Zerabo. Pukurpar, Ashulia, Savar

Google Coordinate: 23.913431, 90.307762

Other Factories: Taharat Composite Ltd. (previously Fabrica Knit Composite Ltd) [ID: 11906]



Inspected By: Mahfuza Khanom

Date: 26 December 2023

Fire Safety Inspection Report

Taharat Composite Ltd. (Extension) (previously Fabrica Knit Composite Ltd)

Introduction:

Taharat Composite Ltd. (Extension) (previously Fabrica Knit Composite Ltd) complex was surveyed for fire safety on **26/12/2023** 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): Building-1 (Extension)

7-storied RCC building connected horizontally with previous ID building 11906_Taharat Composite Ltd. (previously Fabrica Knit Composite Ltd), building height 81'-8" (Upto Parapet).

Design Approved by Yarpur Union Parishad (Savar, Dhaka) on 10 November 2016.

Construction Period Interim.

Factory Address: (Ahamed Plaza)Zerabo. Pukurpar, Ashulia, Savar.

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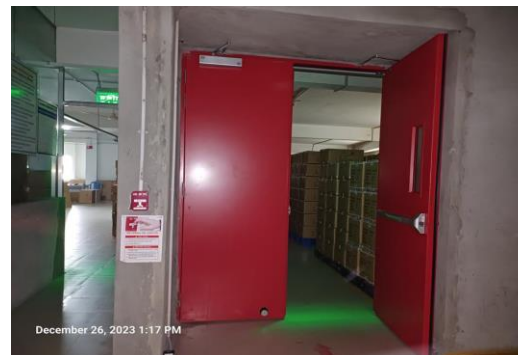


Findings & Recommendations :

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-1	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated barrier construction.	Within 3 months



F-2	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. Fire doors have not been found properly functional during inspection. Ground floor has unprotected opening with medical and childcare.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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.	Within 3 months
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F-3

Fire Rated
Construction

Store room discharged directly into the
exit stair enclosures.

Openings from exit enclosure to storage shall be
provided with a vestibule with fire rated construction
and openings. Provide a 1 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	Areas used for in-process storage of combustible materials are open to the surrounding occupancy.	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-5	Fire Rated Construction	Dining area has a seating capacity of 300 (E3 occupancy) with working area which is not permitted according to Table 3.2.1 BNBC 2006.	Reduce the dining capacity below 300 (E4) and provide at least 3-hr fire separation between E4 and G2 and H2 and maintain at least 2 exits leading directly to the exit stair. Or Relocate the assembly occupancy to or from this building to meet the requirement as per BNBC 2006, Part 3 Table 3.2.1 and part 4 chapter 3 section 3.21.3.	Within 3 months
 				
F-6	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies (PVC pipe at toilet areas).	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-7	Fire Rated Construction	The fire pump room is not provided with adequate fire separation. The discharge of fire pump room has been observed within storage room.	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers. Or, Physically separate the pump room from the protected building by a minimum of 50 ft (15.3 m) in accordance with NFPA 20.	Within 3 months
				

F-8	Means of Egress	Building did not have stair designation signs at the required locations.	Stair designation signs shall be provided at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
 				
F-9	Means of Egress	Common path of egress travel exceeds 23 m. Location: 1st floor & 4th floor	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 m.	Within 3 months



F-10	Means of Egress	The length of dead end of corridor or aisles exceeds 50 ft.	Reconfigure the egress arrangement to reduce the maximum dead-end distance to not more than 15 m (50 ft.).	Within 3 months

F-11	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				

F-12	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 3 months
 				

F-13	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	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-14	Fire Protection System (Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards. T&CVI of the standpipe system with common fire pump and standpipe has been conducted with Old ID_11906 and direct T&CVI is recommended in the T&CVI report conducted on 03/10/2023.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review as a part of T&CVI process. Note: It is recommended that T&CVI of the system shall be conducted with the old ID as both ID'S building are directly connected with each other and has a common system.	Modification if required- within 3 months
 				

F-15	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 standard.	Inspect, test and maintain the fire pump and standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after installation
F-16	Fire Protection System (ITM of Fire Pump)	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation