

INITIAL FIRE SAFETY INSPECTION REPORT

B2B Excellence Ltd (Extension 2)

RSC ID: 24764

Mirzapur Purbapara, 8 No Mirzapur Mowza, Mirzapur, Gazipur

24.08877256047574, 90.3560725576727

Other Factories: B2B Excellence Ltd. [ID-9691], B2B Excellence Ltd. (Extension Buildings) [ID-24280]



Inspected By: Md. Kawsar Rubaiat

Date: 10-Dec-2023

Fire Safety Inspection Report

B2B Excellence Ltd (Extension 2)

Introduction:

B2B Excellence Ltd (Extension 2) complex was surveyed for fire safety on **10-Dec-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):

Factory Building name(s): There are a total of **2 structures** in the factory compound under this RSC ID 24690. The building is as below:

1. Warehouse Building- Two-storied composite structure [New Building].

Approved from **LGED, Gazipur** on 18 May 2023.

Construction duration: April 2022 to October 2022

Occupied: October 2022

Total Floor area: 15,340 sqft (Approximately).

2. Temporary Idle Machine Shed - Idle Machine & store & Maintenance workshop [Interim Building].

Construction duration: Jan 2021 to Feb 2021

Occupied: Feb 2021

Total Floor area: 2,013 sqft (Approximately).

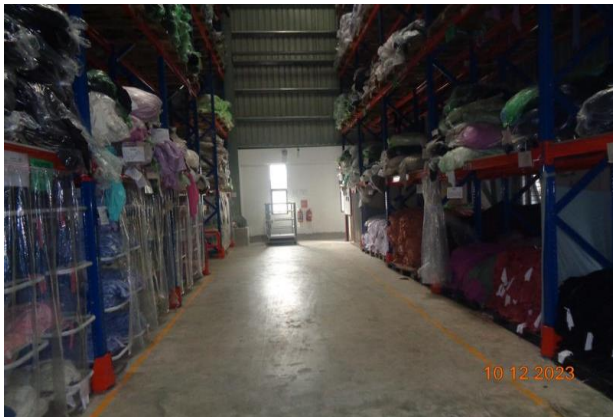
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Findings & Recommendations :

Table 1 summarize 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 stairs are not separated from the storage & office area by fire-rated construction due to non-rated door and window openings. Location: Stair-1, Ground floor. Stair-2, 1st floor. Warehouse building.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr. construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
 				

F-2	Fire Rated Construction	The Warehouse Shed is pre-fabricated steel construction. The main structural element of the buildings is constructed of steel which appears to be nonrated and was found in exposed condition.	For new construction, the building shall be Group 1 or Group 2 construction as required in BNBC 2020 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2020-Table 3.2.4, 3.1.7 and 3.3.1 Factory shall ensure that all the design, datasheet, certificate, and the design-philosophy have been reviewed by the RSC prior to installing the passive fire protection system.	Within 6 months
 				
F-3	Means of Egress	Stair-1 (available 50 inches) & Stair-2 width (available 44 inches) were found less than 1.5m (60 inches) Location: 2-storied RCC building	Stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies	Within 3 Months



F-4	Means of Egress	No guards and handrails are provided at the Exit-2	As per RSC Technical Guidelines (Standard) 6.12.2 Guards shall be provided at all open sides of means of egress that exceed 760 mm (30 in.) above the floor or finished ground below. As per RSC Technical Guidelines (Standard) 6.12.2.1 New and interim guards shall have a minimum height of 1067 mm (42 in.). As per RSC Technical Guidelines (Standard) 6.12.1 New and interim handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Also, both side handrails need to be provided.	Within 3 months
				

F-5	Fire Rated Construction	The chemical storage shed (adjacent to Iron Machine Store) is steel composite type, and all the steel is exposed.	Chemical buildings shall be of type-I construction. Provide the required fire rating on the structural elements by following RSC Standard Section 4.4 Table 4.4.1 or BNBC-2006 Part 4 Table 3.3.1 and Table 4.1.1	Within 6 months
				
F-6	Fire Rated Construction	Chemical store was found without fire separation from the idle machine store.	Ensure the chemical store fire is separated by a minimum 4-hr fire-rated construction barrier with only occupancies with G and H following table 3.2.1 of BNBC-2006. No opening is permitted in the 4-hr rated wall towards any other occupancy. Follow section 2.13 of BNBC-2006 as a guideline chemical store while rearranging.	Within 3 months

				
F-7	Fire Rated Construction	The exit discharge path is less than 10 ft. wide and is not separated from the building interior and container area.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation.	Within 3 months
				

F-8	Means of Egress	The building did not have exit stair designation signs or occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month
F-9	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	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
 				

F-10	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/ modification)
F-11	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-12	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