

INITIAL FIRE SAFETY INSPECTION REPORT

Knit Plus Limited (Unit-3)

RSC ID: 25557

Kolabadha, Mouchak, Kaliakoir, Gazipur

Geographical Coordinates of factory building: 24.024520, 90.305747

Other Factories: No (in this Premises)



Inspected By: Dilip Kumar Mondal

Date: 18 September-2024

Fire Safety Inspection Report

Knit Plus Limited (Unit-3)

Introduction:

Knit Plus Limited (Unit-3) complex was surveyed for fire safety on **18 September-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

SI No	Building Name & Description	Construction History	Period
1	Shed-1: Single Storey Pre-Fabricated Steel Shed, Printing & Embroidery Total Approx Area: 2322.576 sqm	Construction Start: July 2021 Construction End: Jan 2022 Date of first Operation: Feb 2022 Building Approval: On 22 September 2022 from LGED	New
2	Shed-2: Two Storied Pre-Fabricated Steel Shed, Fabric Store & Cutting Total Approx Area: 3994.83 sqm	Construction Start: May 2022 Construction End: Jan 2024 Date of first Operation: Feb 2024 Building Approval: On 22 September 2022 from LGED	New
3	Building-1: Single Storey Utility Building, Total Approx Area: 287.9994 sqm	Construction Start: May 2022 Construction End: Dec 2022 Date of first Operation: May 2024 Building Approval: On 22 September 2022 from LGED	New
4	Building-2: Single Storey Utility Building for Solar Controlling Unit Total Approx Area: 287.9994 sqm	Construction Start: May 2022 Construction End: Dec 2022 Date of first Operation: May 2024 Building Approval: On 22 September 2022 from LGED	New
5	Shed-3: Single Storey Pre-Fabricated Steel Shed, ETP Total Approx Area: 84.5 sqm	Construction Start: July 2021 Construction End: Jan 2022 Date of first Operation: Feb 2022 Building Approval: On 22 September 2022 from LGED	New
6	Shed-4: Single Storey Pre-Fabricated Steel Shed, (Medical & Child Care Shed) Total Approx Area: 110 sqm	Construction Start: Dec 2023 Construction End: Apr 2024	New
10	Other 6 Nos. Single storey pre-fabricated steel sheds for generator and compressor, press, level printing, waste, chemical, labor and electrical sub-stores.		New

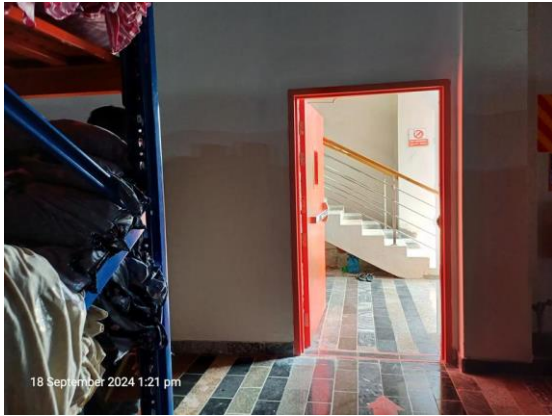
Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection of main building. 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 approval.

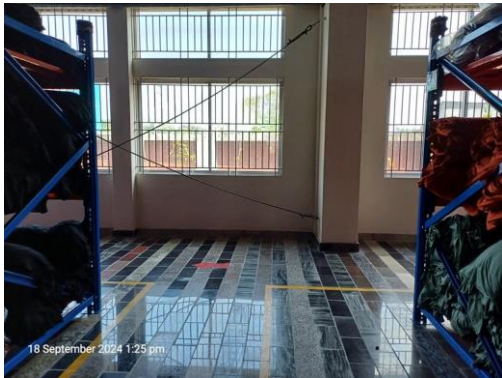
Table-1:				
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Means of Egress	Exit stairs are not properly separated from work areas & other spaces on 1st floor by fire-rated construction due to unprotected openings and penetrations. Location: Shed-1 on 1st floor all stairs.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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 unless it meets RSC Technical Guidelines 6.8.3.1.	Within 3 months



F-02	Fire Rated Construction	Storage room discharges directly into the exit stair enclosure without vestibules. Location: Ground floor for Shed-2	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5-hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storage room side as per 6.14.3-RSC Technical Guidelines Standard V1.0. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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F-03	Mean of Egress	Uneven path of travel and blockage in exit discharge path due to construction purpose. Locations: Stair-1 &2 for Shed-2.	Remove unnecessary items and level exit path to the public way. Means of egress shall be maintained continuously free , clear of all obstructions & usable to all environment.	Within 2 months
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F-04	Mean of Egress	Travel distance found more than 30 m on ground floor in the storage area. Location-Shed-2	Exits shall be arranged in such a manner that the travel distance from any point in the area served shall not exceed the 30 m.		Within 3 months
					

F-05	Mean of Egress	Egress doors and gates with locking features are provided at building exits, exit stairs, along egress routes and exit discharge on all floors except Shed-2.	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 standard 6.8.2.	Immediate
 				

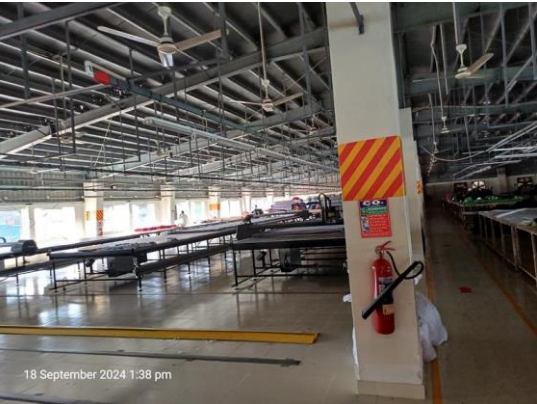
F-06	Egress	Building did not have stair designation signs at required locations on all floors for Shed-2.	Provide stair designation signs at required locations.	Within 1 month
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F-07	Fire Alarm & Detection system	The fire detection system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire detection system with a new, listed addressable fire detection system in accordance with NFPA 72.	Design within 3 months and installation with 6 months
 				

F-08	ITM of Fire Alarm & Detection system	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 The RSC Technical Guidelines (Standard).	Within 1 month (after installation)
F-09	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 in accordance with The RSC Technical Guidelines (Standard).	Within 3 months
F-10	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Shed-1 &2.	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 3 months



F-11	Egress Lighting	Exit signage not illuminated/missing (burned out, broken, etc.). Locations: Shed-2	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs	Within 1 month
				
F-12	Emergency light and Exit Sign	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location-Shed-2	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	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 Guidelines (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 3 months