

INITIAL FIRE SAFETY INSPECTION REPORT

Pioneer Knitwears (BD) Ltd.(Section-2)(Extension)

RSC ID: 24599

Jamirdia, Habirbari, Valuka, Mymensingh-2240.

24.321482, 90.379077

Other Factories: Pioneer Knitwears (BD) Ltd.(Section-2) [ID-12142]



Inspected By: Md. Sadid Rahman and Nainin Nowrose

Date: 23-Nov-2023

Fire Safety Inspection Report

Pioneer Knitwears (BD) Ltd.(Section-2)(Extension)

Introduction:

Pioneer Knitwears (BD) Ltd.(Section-2)(Extension) complex was surveyed for fire safety on **23-Nov-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): There are total 10 nos of structures in the factory compound under this RSC ID 24599 where approval authority of all structures are LGED Valuka. The buildings are as below:

S/N	Building Number	Building Name	Type of construction	Year of construction	Date of Occupy	Date of Approval	Construction Period	Area in sqft
1	Building# 3	Security Building-2	RCC	Feb 2015 to Feb 2016	Mar-2016	24-Jun-2016	Interim Construction	2681
2	Building# 6	Dinning Building-2	RCC	Mar 2017 to Apr 2019	Apr-2019			10710
3	Shed# 5	Linking Floor C&D	Steel	Sep 2015 to Jun 2016	Jul-2016			59050
4	Shed# 12	Scrap Godown	Steel	Jan 2013 to Jan 2014	Feb-2014			2600
5	Shed# 13	Civil Godown	Steel	Jun 2013 to Jun 2014	Jul-2014			2086
6	Shed# 14	Year Godown	Steel	Sep 2015 to Jun 2016	Jul-2016			33709
7	Shed# 15	Fire Pump House	Steel	Jun 2015 to Jun 2016	Jul-2016			2030
8	Shed# 16	Diesel Generator	Steel	Jun 2022 to Dec 2022	Dec-2022		New Construction	1214
9	Shed# 18	Substation	Steel	Jun 2022 to Jun 2023	Jul-2023			1123
10	Shed# 17	Generator Store	Steel	Jun 2016 to Jun 2017	Jul-2017		Interim Construction	442

Factory Address: Jamirdia, Habirbari, Valuka, Mymensingh-2240.

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: For B# 3, 6 and Shed# 5, 12, 13, 14, 15, 16 ,17 18.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction due to the following reasons: i. Fire doors were not functional properly. ii. Fire doors were found opened with external objects. iii. Vision panel of fire doors were not installed. iv. Unprotected opening was found due to toilet at the stairs. Location: B-6 (Dining Building-2)	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
 The first photograph shows a fire door with a significant gap at the bottom, allowing smoke or fire to pass through. The second photograph shows a fire door with a vision panel that is not properly installed or sealed. The third photograph shows a fire door with a fire extinguisher mounted on it, which is not a fire-rated door.				

F-2	Fire Rated Construction	The main structural elements of the building are constructed by steel which is non-rated and were found in exposed condition without any fire protection. (Interim Structure). Located: Shed-5,12,13 and 14.	Interim building shall be type-1 or type-2 construction as per Table 3.2.4 of BNBC-2006. 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-3	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Shed-5(Linking Floor C&D).	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-4	Means of egress	Exit path from Shed-5(Linking Floor C&D) & B-6(Dinning Building-2) is not even and smooth.	Level the exit discharge path to ensure smooth and safe evacuation.	Within 1 month
				
F-5	Means of egress	The S/W exit discharge path between Shed-5(Linking Floor C&D) & B-6(Dinning Building-2) is less than 10 ft wide and is not seperated from the building interior due to non rated openings & penetrations.	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 seperation. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 3 months

				
F-6	Means of Egress	Headroom on main exits were found less than 6 ft 8 inch. Location: Shed- 14 (Yarn Godown).	Headroom on means of egress shall not be less than 6 ft 8 inch.	Within 1 month
				

F-7	Means of Egress	Travel distance of egress exceeds limit on the Shed- 14 (Yarn Godown).	Reconfigure the egress arrangement or provide an additional exit so that the travel distance for group H occupancies shall not exceed 30m (100ft).	Within 1 month
				

F-8	Means of Egress	Aisles marking has not been provided on the floor properly. Location: Shed- 13 (Civil Godown)	Provide minimum aisle widths of 36-in and mark properly.	Within 1 months
				
F-9	Means of Egress	Occupant load signs at required exits are not posted in accordance with the RSC Technical Guidelines (StandardV1.0) section 6.4.4.	Occupant load signs and stair designation signs at required exits and stairs are not posted in accordance with the RSC Technical Guidelines (StandardV1.0) section 6.4.4.	Within 1 month
F-10	Means of Egress	Sliding doors are provided at building exits. Location: Shed- 16 (Diesel Generator):	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month



F-11	Egress Lighting	The directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious. Location: Shed-14	Install 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
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