

INITIAL FIRE SAFETY INSPECTION REPORT

Probridhi Apparels Ltd (Extension)

RSC ID: 25623

**ADDRESS: Kawya, Chonnapara, Sreepur, Gazipur- 1740
24.202321, 90.429379**

Other Factories: PROBRIDHI APPAREL LTD. ID 12421



Inspected By: Ahammad Kabir

Date: 28/04/2024

Fire Safety Inspection Report

Factory Name: Probridhi Apparels Ltd (Extension)

Introduction:

Probridhi Apparels Ltd (Extension) complex was surveyed for fire safety on 28 April 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):

- 1. Main Building 02, constructed from Oct 21 to Feb 23, Occupied in March 23, Two storied steel structure, Area 25000 sqft.**
- 2. RMS room and Security Room, constructed from Jan 20 to Feb 20, Occupied in March 20, Single storied shed, Area 316 sqft.**
- 3. Compressor Room, constructed from Jan 16 to Mar 16, Occupied in April 16, Single storied shed, Area 231 sqft.**
- 4. Fire pump Room, constructed from Feb 23 to May 23, Occupied in June 23, Single storied shed, Area 1885 sqft.**

Factory Address: Kawya, Chonnapara, Sreepur, Gazipur- 1740

Points of contact:

1.

Name: Pulak Chandra Das

Designation: General Manager (HR, Admin)

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2.

Name: Sujan Kumar Haldar

Designation: Engineer (Maintenance)

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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 approval.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
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F-1	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location: Main building 02	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-2	Fire Rated Construction	Storage/ storage rooms from ground floor and first floor discharge directly into the exit enclosures. Location: Main building 02	Openings from exit enclosure to storage room, generator, basements, transformer boiler and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guidelines (Standard) 6.14.3. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storeroom/storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months

				
F-3	Fire Rated Construction	The fire pump room is not provided with adequate fire separation from ETP.	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers in accordance with NFPA 20 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 2 months



F-4	Fire Rated Construction	The compressor room is not fire separated with fire rated construction barrier or assemblies. Location: Compressor Room.	Separate the boiler and compressor rooms by a minimum 1-hr fire-rated construction with 0.75-hr fire rated opening protective assemblies like fire rated door. Similarly separate generator and substation room by a minimum 2-hr fire rated construction with 1.5-hr fire rated opening protective assemblies like fire rated door. Provide proper ventilation and consult a qualified engineer for overall solution. When located to the exterior of a building by at least 3m (10 ft.) distance from surroundings then fire rated construction barrier is not mandatory.	Within 3 months
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F-5	Non rated structure	The main structural element of the main building 02 (Two storied) is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Main building 02	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 Submit the design, datasheet, certificate, and the design-philosophy to the RSC for review prior to install the passive fire protection system.	Within 6 months



F-6	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Within 2 months
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F-7	Fire Alarm & Detection System (FADS)	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with standard.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-8	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Main Building 02	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-9	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 3 months
F-10	Egress Lighting	Manual on-off switch is provided for emergency lighting / exit signage units. Location: Main Building 02	Remove manual on/off switches from emergency lighting/exit signage units to prevent them from being switched off	Within 1 month

F-11	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Main Building 02	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-12	Inspection Testing and Maintenance of Portable Fire Extinguisher.	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.	Within 3 months

F-13	No smoking sign	The required no smoking signs are not present in the factory. Location: Main Building 02	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month
F-14	Means of egress	Building did not have stair designation signs and occupant load signs at required locations on all floor. Location: Main Building 02	Provide stair designation signs and occupant load signs at required locations.	Within 1 month

