

INITIAL FIRE SAFETY INSPECTION REPORT

Winter Dress Limited (Extension)

RSC ID: 24779

ADDRESS: 1 No. Kalma, Dairy Farm, Savar, Dhaka

Other Factories: Winter Dress Limited(ID-10907)



Inspected By: Md. Anisuzzaman

Date: 05th-December- 2023

Fire Safety Inspection Report

Winter Dress Limited (Extension)

Introduction:

Winter Dress Limited (Extension); complex was surveyed for fire safety on **05/12/2023** 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): There are five (5) structure under this ID-24779 which are listed below:

1. 5-Storied ETP building, RCC Structure(Construction: Jan-2017 to Nov-2017 & Occupied: Jan-2018,total area=8800 SQFT, Ground floor=2100 SQFT & other Per floor 1675 SQFT, Design approved by LGED, Savar / Nov 2007, Interim construction)
2. Three Storied fire control building, RCC Structure(Construction: Jan-2015 to Dec-2015 & Occupied: Dec-2015,total area=1008 SQFT, Per floor 336 SQFT, Design approved by LGED, Savar / Nov 2007, Interim construction)
3. Single Storied Jute shed-1, Steel Structure(Construction: March 2018 to June-2018 & Occupied: July-2018, total area=4640 SQFT, Design approved by LGED, Savar / Nov 2007, Interim construction)
4. Single Storied Jute shed-2, Steel Structure(Construction: March 2018 to June-2018 & Occupied: July-2018, total area=3533 SQFT, Design approved by LGED, Savar / Nov 2007, Interim construction)
5. Single Storied Utility building, RCC Structure (Construction: Oct 2015 to -2018 & Occupied: July-2018, total area=3533 SQFT, Design approved by LGED, Savar / Nov 2007, Interim construction)

Factory Address: 1 No. Kalma, Dairy Farm, Savar, Dhaka

Points of contact:

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Findings & Recommendations :

Table 1- summarizes 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 approval

Table-1: Finding & recommendation

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Plumbing PVC pipe	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor.	Within 3months
 				

F-2	Fire-Rated Construction	The shed-1 & Shed-2 are a single story structure with fire rated wall however the roof is made of steel trusses and tin roof sheet which is non-rated and were found in exposed condition without any fire protection Location: Shed-1 & Shed-2	Interim building shall be type-1 or type-2 construction. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4.(2006). 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	Mean of Egress	The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction due to unprotected opening. Location: 5-Storeyed building & Three storied fire control building.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories with 60 minutes opening protection and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories with 90 minutes opening protection. 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
				
F-4	Means of Egress	Building did not have stair designation signs at required locations.	Provide stair designation sign 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-5	Means of Egress	A single means of egress is provided in the 5-Storeyed ETP building & Three storied fire control building.	Single exit is allowable on ground floor when the occupant load is limited to 50 with maximum travel distance 23 meter. Single exit is allowable on 1st floor when the occupant load is limited to 30 with maximum travel distance 23 meter. All other stories require a minimum of 2 egress exits. So, provide additional means of egress for 5-Storeyed ETP building & Three storied fire control building.	Within 1 month
 				
F-6	Means of Egress	Width of new exit stair is less than 1.5 m (60 in.). Location: 5-storied building & Three storied fire control building.	Provide minimum clear and unobstructed exit stair widths of 1.5 m(60 in.) in accordance with RSC Technical Guideline (Standard) V1- 6.5.6.2.1	Within 3 months



F-7	Means of Egress	Handrails are not provided on both sides of both exit stairs. Location: 5-storied building.	Provide handrails on both sides of the exit stair. New 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Rail guards shall be such patterned so that a sphere 200mm (8 in.) in diameter cannot pass through any opening up to a height of 865mm (34in.).	Within 3 month
				

F-8	Means of Egress	Updated fire evacuation maps is not posted at the entrance of all exit stair	Updated Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-9	Means of Egress	Building did not have occupant load signs at required locations.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	Within 1 month
F-10	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-11	Egress lighting	Exit sign not provided at required exit	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	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 3 months
F-13	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).
 The first photograph shows a fire alarm control panel with a red door open, revealing internal components. The second photograph shows a white ceiling-mounted fire alarm detector. The third photograph shows a fire alarm pull station with a red alarm button and a yellow label, mounted on a wall near a staircase.				

F-14	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after modification(If require).
F-15	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA- 14 , 20 ,22 & 24 or as per RSC standard.	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 1 month and modification within 3 months (If require).



F-16	ITM of Protection System(SUPS)	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 standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after modification(If require).
F-17	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after modification(If require).

F-18	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 3 months
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