

INITIAL FIRE SAFETY INSPECTION REPORT

Cotton Club (BD) Ltd. (Extension)

RSC ID: 24250

ADDRESS: Jarun (South), Kashimpur, Gazipur, Bangladesh.

23.9909191, 90.3213828

Other Factories: Cotton Clout (BD) Ltd. (9980) & Cotton Club (BD) Ltd. (12019) (In the same premises)



Inspected By: Ahammad Kabir & Md. Ferdaus Jaman

Date: 19-October-2021

Findings & Recommendations :

Table 1 and 2- 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 approval.

Table-1:Findings & Recommendations for RO Building (Building no 09)

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. Location: RO building	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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-2	Fire Rated Construction	Storage room discharges directly into east exit stair enclosure. Location: RO building	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. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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F-3	Means of Egress	Handrails are not provided on both sides of the exit stair.	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.).	Within 3 months
				

F-4	Means of Egress	Parapets or guards are not provided at some locations. Parapet provided on the roof is improper. Location: RO Building	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
 				
F-5	Means of Egress	Falling hazard was observed on exit stair shaft that may lead to severe injury. Location: RO building.	Guards shall be provided with minimum height of 1067 mm (42 in.).	Within 1 month

				
F-6	Egress lighting	Several exit signs are not illuminated at different floors.	Illuminated 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. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
				

F-7	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-8	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-9	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation was ongoing during inspection day. The Required Fire Alarm system is not installed in accordance with the ACCORD standard and NFPA-72. Location: RO building	Design & Installation of Fire Alarm system shall be in accordance with ACCORD standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. 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 within 2 months, Install within 4 months.
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F-10	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 Month after installation.
F-11	Fire Protection System(Standpipe)	The Required Standpipe System is not installed in accordance with the ACCORD standard and NFPA-14, 20, 22 and 24. Location: RO Building	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.

F-12	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per Accord standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.
F-13	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months
F-14	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

Table-2: Findings & Recommendations for Dyeing and Dyeing Finishing Building (Shed 11) and Other Ancillaries.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: Shed 11	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - 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.	Within 3 months
				

F-2	Fire Rated Construction	The main structural elements of the shed building are constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Shed 08, 10, 11, 12, 14	The buildings are new steel structure which shall be type-I or II construction. So, provide require rating in the structural elements of the buildings. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
				

F-3	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. Location: Building no 08	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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	Fire Rated Construction	The three hazardous materials / flammable liquid storage rooms, after discharge from the northwest exit stair, were not separated by fire-rated construction due to nonrated doors. The nonrated tin roofs did not provide adequate separation to the interior of the building on the ground floor. Location: Building no 08	Separate the hazardous materials / flammable liquid storage rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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F-5	Fire Rated Construction	The boiler and transformer room is not separated by fire rated construction (openings, non-rated doors, penetrations) Location: Building no 14	Specify appropriate upgrade based on conditions: -Separate the boiler room by a minimum 2-hr fire rated construction (for high rise building)/ 1-hr fire rated construction (for low rise building). Seal and/or protected all openings to maintain fire separations. -Separate the transformer room by a minimum 2-hr fire rated construction. Seal and/or protected all fire separations.	Within 3 months
				
F-6	Means of Egress	Falling hazard was observed on exit stair shaft that may lead to severe injury. Location: Building no 14	Guards shall be provided with minimum height of 1067 mm (42 in.).	Within 1 month

				
F-7	Means of Egress	The exit discharge path is less than 10 ft. wide and is not separated from the building interior. Location: Building no 12	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.	
				

F-8	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Building no 11	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(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-10	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation was ongoing during inspection day. The Required Fire Alarm system is not installed in accordance with the ACCORD standard and NFPA-72. Location: Shed 08, 10, 11, 12, 14	Design & Installation of Fire Alarm system shall be in accordance with ACCORD standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. 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 within 2 months, Install within 4 months.
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F-11	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 Month after installation.
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F-12	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months
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