

INITIAL FIRE SAFETY INSPECTION REPORT

Adury Apparels Ltd. (Extension 2)

RSC ID: 24735

ADDRESS: Karardi, P.O- Karardi High School, P.S- Shibpur, Dist- Narsingdi

Geographical Coordinates: 23.96059617, 90.71859530

Other Factories: Adury Apparels Ltd. (10087)

Adury Apparels Ltd.New Shed, Shed-8 (23645)



Inspected By: A N Faisal Ahmed

Date: 09 November, 2023

Fire Safety Inspection Report

Factory Name: Adury Apparels Ltd. (Extension 2)

Introduction:

Adury Apparels Ltd. (Extension 2) complex was surveyed for fire safety on **09 November, 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 the 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): Building -05

Factory Address: Karardi, P.O- Karardi High School, P.S- Shibpur, Dist- Narsingdi

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 review.

Table-1:

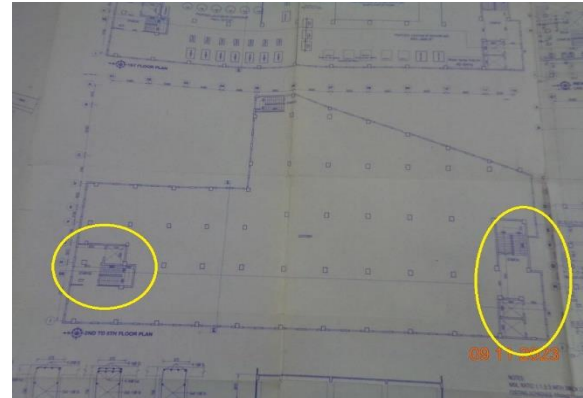
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The compressor room is not separated by fire rated construction from the storage area at 1st floor.	Separate the compressor rooms by a minimum 2-hr fire-rated construction from storage occupancy. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building 3m (10 ft.) spatial distance shall be maintained around the compressor room. Ensure proper ventilation for the compressor room.	within 3 months



F-2	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction on ground floor.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m² (250 ft²) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²). - In-process storage shall not exceed 10 percent of the building area of the story in which they occur.	Within 3 months
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F-3	Fire Rated Construction	Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3.	An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure. (As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0) Ensure the lift shaft is enclosed by a minimum 3-hour fire rated wall with minimum 2.0-hr fire rated door. Recommended to follow "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 months
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F-4	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	The exit stair enclosure shall be provided with a minimum of 1- hr. fire resistance rating for buildings 3 or less stories and 2- hr. fire resistance rating for buildings 4 or more stories. 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-5	Fire Rated Construction	The exit court serving stair-03 (East stair) is less than 10 ft wide & not protected from opening on exterior wall.	Egress courts less than 3050 mm (10 ft) in width (as measured from Building-01 to Building-02) shall be provided with walls having a 1-hr fire resistance rated construction materials for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 months

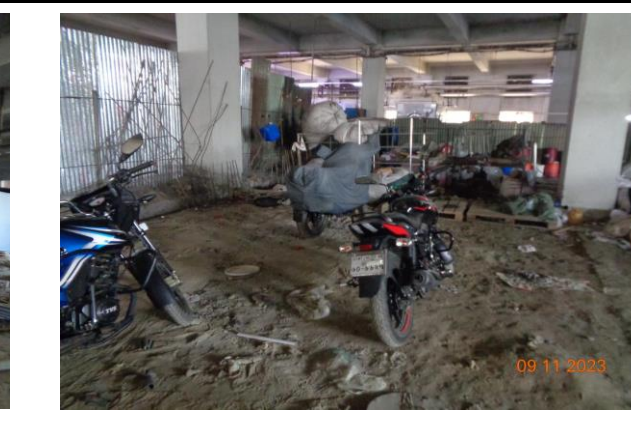
				
F-6	Fire Rated Construction	WTP area & Machineries on ground floor are not separated from ground floor production occupancy.	Provide a minimum 2-hr fire rated separation from ground floor WTP area to production occupancy.	Within 3 months



F-7	Fire Rated Construction	Storage rooms discharges directly into exit stair enclosure on 1st floor without vestibule .	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 2 hr. fire rated construction on the exit stair side (when building is 4 stories or more) or 1 hr. fire rated construction on the exit stair side (when building is 3 stories or less) and a 1- hr. fire rated construction on the storage 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-8	Fire Rated Construction	Chemical store was found on ground floor without fire separation from other occupancy.	Ensure the chemical store fire separated by minimum 4-hr fire rated construction barrier with only occupancies with G and H following table 3.2.1 of BNBC-2006. No opening is permitted in the 4-hr rated wall towards any other occupancy. Follow section 2.13 of BNBC-2006 as a guideline chemical store while rearranging.	Within 3 months
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F-9	Fire Rated Construction	Parking of motor vehicles was found on ground floor without fire separation from other occupancy. Provide a fire separation between parking of motor vehicles area from other occupancy as per table 3.2.1 (BNBC 2006)	Within 3 months
			

F-10	Fire Rated Construction	The fire pump room is not separated from ground floor AC plant room due to floor penetration for submersible water pump pipeline. 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 guideline. or, Provide a minimum 2-hr fire rated shaft to separate water pipe line from required floor.	Within 3 months
 			

F-11	Fire Rated Construction	Parapets are not provided in occupied roof.	Provide parapets with a minimum height of 1067mm (42 inch.). Parapets that are constructed on rated exterior construction shall be of the same rating as the exterior wall rating in accordance with BNBC.	Within 3 months
				
F-12	Fire Rated Construction	Handrails are not provided on exit stair of all stair.	Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in). 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 shall maintain.	Within 3 months



F-13	Means of Egress	Guards are not provided floor location adjacent to drainage, periphery of the floor , infront of lift shaft etc.	Guards shall provide as per RSC Technical Guidelines (StandardV1.0.) Section 6.12.2 where elevation exceeds 30 in. Minimum guard height shall be 42 in & Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 months
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F-14	Means of Egress	Aisles are not marked throughout the building.	Provide minimum aisle widths of 36 inch with proper marking & update on evacuation map.	Within 1 Month
				
F-15	Means of Egress	Building did not have Fire evacuation map, occupant load sign, stair & floor designation at the required locations.	Provide Fire evacuation map, occupant load sign, stair & floor designation at the required locations.	Within 3 months

F-16	Means of Egress	Exit signage was not provided along a path of egress. Few exit signage were provided but found burn out. This is typical on all floors.	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 emergency power and shall be continuously illuminated.	Within 3 months
 				

F-17	Means of Egress	Emergency light was not provided along the path of egress. Location: All floors of the building.	Provide Emergency lights above all building egress path throughout the building. Emergency lights shall be provided with either battery backup or uninterruptable dedicated power supply systems and shall be continuously illuminated. Emergency light's minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
F-18	Means of Egress	Directional Exit signage was not provided along the path of egress. Location: All floors of the building.	Provide directional exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 3 months
F-19	Means of Egress	Stairway treads are not uniform & uneven walking surface were found from exit discharge of stair-03 and are not protected from slip or tripling hazard.	Provide an even level walking surface in exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard_V1.0).	Within 1 month

				
F-20	Means of Egress	Working floor area were found in wet condition & not workabale condition due to uneven condition on several locations.	Provide an even level walking surface & slip resistance floor free from wet condition in accordance with 6.3.6 of RSC Technical Guidelines (Standard_V1.0).	Within 1 month

 				
F-21	Emergency Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with RSC guidelines.	Inspect, test and maintain the emergency lighting system in the accordance with NFPA/RSC. Keep written records on-site.	Within 3 months
F-22	Fire Alarm & Detection System (FADS)	Addressable Fire alarm and detection system weren't observed on the building as per NFPA 72 and RSC Technical Guidelines (Standard).	Submit the proposed design of Addressable fire alarm system to RSC in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System.	Design within 3 Month and installation within 6 months

F-23	Fire Alarm & Detection System (FADS)	Inspection, testing, and maintenance for the fire detection system is not found in accordance with NFPA 72.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 Month after installation.
F-24	Fire Protection System	Fire extinguisher are placed on floor location & are subjected to physical damage due to wet floor condition and others building construction factor.	Fire extinguisher shall be install with a clearance between the bottom of the hand portable fire extinguisher and the floor not less than 4 in. (102 mm).	Within 1 months
				

F-25	Fire Protection System	Inadequate number of fire extinguisher has been observed during inspection on floors.	Portable fire extinguishers shall be installed throughout the facilities in accordance with BNBC 2020 and NFPA 10. Extinguishers shall be placed so that maximum travel distance to the nearest unit shall not exceed 30 m (100 ft)	Within 3 months
F-26	Fire Protection System	Inspection, testing and maintenance of portable fire extinguishers is not found in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 1 Month
F-27	Fire Protection System	The required no smoking signs are not present in the factory.	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