

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Integra Apparels (Bangladesh) Ltd.-Extension

Factory ID: 24593

Address: Plot 742, Dhour, Nayanagar, Turag, Dhaka-1230

Google Coordinate: 23.887043, 90.376736

Other Factories: Integra Apparels (Bangladesh) Ltd. (ID: 11364)



Inspected By: Nirmal Chandra Sinha and Shahina Imam

Date: 15 May 2023

Introduction:

ID: 24593

Integra Apparels (Bangladesh) Ltd.-Extension; complex was surveyed for fire safety on **15-May-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.

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: Findings & Recommendations

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The exit egress path of the building (extension) through connected steel structure building exit stairs which are not separated from work areas and other spaces on each floor by fire-rated construction according to the standard. During inspection it was observed that the factory old and extension building floors are merged from ground to 3rd floors. The building extension part is RCC and old part is steel structure and there are no direct exit stair from the extension building.	Provide exit egress path and building construction through other building (steel structure) in accordance with RSC Technical Guidelines (Standard) 3.5.2.1 and BNBC part-2 Table-3.2.4 and provide minimum 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation as per RSC Technical Guidelines (Standard) 6.3.1.3. 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. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard) 6.8.3.1.	Within 3 months



2	Fire Rated Construction	Since the structure is steel composite type and RCC panels are resting on the steel columns and girders. Hence, each floor of the building is not separated by a fire resistive rated construction barriers.	Construction of building shall be Type-1 & Type-2 construction in accordance with RSC Technical Guidelines (Standard) 3.5.2.1 and BNBC part-2 Table-3.2.4. Provide fire-resistive rated construction barriers following Section 4.4 and Table 4.1.1 of the RSC Technical Guidelines (Standard) 3.5.2.1 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.	Within 6 months
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3	Fire Rated Construction	Rooms and process goods used for combustible storage are not separated by fire rated construction on ground and 2nd floors.	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 2.45m (8ft.) and maximum area of 23m ² (250 ft ²) – If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m ² (1,000 ft ²). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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4	Fire Detection & Alarm System	An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard) for all buildings in the factory premises.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design submission (Within 2 months), Modification within 4 months (if required)
				

5	Inspection, Testing, and Maintenance of the Fire Detection & Alarm System	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.	Within 1 month
6	Egress	Stair designation signs at floor entrances and occupant load signs at required exit stairs are not posted in accordance with the RSC Technical Guidelines (StandardV1.0) section 6.9.3.1 & 6.4.4.	Provide stair designation signs, occupant load signs and emergency evacuation plans at required locations.	Within 1 month
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
8	Inspection, testing, and maintenance of 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

9	Inspection, testing, and maintenance of Emergency light and Exit Sign	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in the accordance with the standard. Keep written records on-site.	Within 3 months
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