

INITIAL FIRE SAFETY INSPECTION REPORT

Ahsan Apparels Ltd.

Factory ID: 24079

**ADDRESS: M S Tower-2, Siddhirgonj, Narayangonj
(23.6893394,90.5150398)**

Other Factories: None



Inspected By: Dilip Kumar Mondal and Shahina Imam

Date: 25 January 2021

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

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire-Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5 -hr. fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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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2	Fire-Rated Construction	The Boiler and Compressor room are not separated by fire-rated construction ((openings, non-rated doors, penetrations). Location: Boiler at shed-1, compressor under the stair-2.	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 air compressor room by a minimum 2-hr fire rated construction. Seal and/or protected all openings to maintain fire separations.	Within 3 months
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3	Fire Rated Construction	Transformer & LT Panel (sub-station) are not properly separated by fire rated construction (openings, non-rated doors, penetrations). Location: Ground floor production building	Separate the transformer & LT panel room by a minimum 2-hr fire rated constructions. Seal and/or protect all opening to maintain the required fire separation. Provide proper ventilation system with consult a qualified engineer.	Within 3 months
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4	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction. Location: Ground floor fabric ware house and accessories storage room.	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 23 m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93 m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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5	Fire-Rated Construction	Areas used (in-process storage) for combustible materials are open to the surrounding occupancy. Location: First & fourth floors at production building.	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. 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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
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6	Fire Rated Construction	Elevator shaft is located inside the production floor and is not separated by proper fire rated construction (openings, non-rated doors, penetrations) Location: North west stair at production building.	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	Within 3 months



7	Fire-Rated Construction	The South East exit discharge path is less than 10ft. wide and is not separated from the building interior.	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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 6 months
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8	Mean of Egress	Mean of Egress doors with locking features are provided along egress routes. Egress gates with locking features are provided at building exits and exit discharge.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediately



9	Mean of Egress	Collapsible and sliding doors are provided at building exits, exit stair and along egress routes.	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
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10	Mean of Egress	Width of aisles is less than 0.9m (36-in.) and aisles mark is not properly provided at 2nd floor and shed-2. Location: 1st & 4th floors of main building and Shed-2.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months
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11	Egress	Building did not have stair designation signs or occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Immediately
12	Mean of Egress	Storage was located in exit stair. Location: Below staircase-1&2 on ground floor.	Remove all storage from exit stair enclosures.	Immediately



13	Mean of Egress	Parapets or guards are provided in roof which is less than 1067mm (42 inch.).	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
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14	Fire Detection & Alarm System	The fire detection system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire detection system with a new, listed addressable fire detection system in accordance with NFPA 72.	Design within 3 months and installation with 6 months
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15	Fire Detection & Alarm ITM	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72	Within 1 month (after installation)
16	Fire Protection	The existing building has an occupied floor greater than 10 meter (33 feet) and is not provided with standpipe system.	Provide Class-III or Class-1 & II standpipe system & fire department connection throughout the building in accordance with NFPA 14, 20,22 and 24.	Design within 4 months and installation with 9 months



17	Fire-protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the Standpipe system and keep written records on- site, in accordance with NFPA 25.	Within 1 month (after installation)
18	Fire-protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20.	Within 1 month (after installation)

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19	Fire-protection	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 on- site, in accordance with NFPA 10 and ACCORD standards.	Within 2 months
20	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Main building & Shed-2.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a 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
 				

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21	Egress Lighting	Illuminated directional signs are not provided where direction of the path of travel to an exit has changed. Location: All floor of production building and shed-2.	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
 				
22	Emergency 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 2 months