

FIRE SAFETY INSPECTION REPORT

ARROW FABRICS (PVT.) LIMITED

ACCORD ID: 23536

Plot: 50-51, Sector: 03, Karnaphuli EPZ, North Patenga, Chattogram, Bangladesh
(22.276046, 91.794600)

OTHER FACTORY (S): NONE



Inspected By: Dilip Kumar Mondal

Date: 07 November, 2018

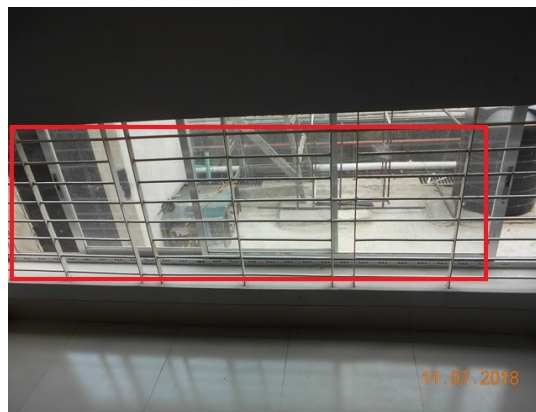
Findings & Recommendations :

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 Accord for approval.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The exit stairs enclosures are separated from work areas and other spaces on each floor by fire rated construction & doors except stair-1,3&4 on ground floor (Non rated doors, window & unsealed penetrations).	Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 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. 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.	Within 3 months





2	Fire Rated Construction	Diesel fuel (flammable liquid)storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations). Location: North-East side of the factory building's stair-3.	Separate the hazardous materials / flammable liquid storage room by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months
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3	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction. Location: 3rd floor.	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
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4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Location: 2nd floor & electrical riser, sub-station.	Seal all penetrations and openings in floors/ceiling assemblies to maintain the fire separation.	Within 3 months
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5	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures. Location: Ground floor for stairs 3&4.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
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6	Egress	Storage was located in the egress path. Location: 3rd floor on aisles.	Keep egress path and stair clear of storage	Immediate
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7	Egress	Building did not have occupant load signs at the required location.	Provide occupant load signs at the required locations.	Immediate
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8	Egress	Handrails are not provided as per Accord standard 6.9.2.4 (Note: Stair width 112 in).	Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 3 months
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9	No smoking sign	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
10	Fire Detection and Alarm System	The fire detection and alarm system is not 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 4 months, Install within 9 months



11	Fire Protection System	The existing building has an occupied floor greater than 10 meter (33 feet) and is not provided with proper standpipe protection.	Install a new standpipe system & fire department connection in accordance with NFPA 14. A class I system shall be permitted in buildings protected throughout by an automatic sprinkler system.	Design within 4 months, Install within 9 months
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12	Fire Protection System	Fire pump installation requires detailed review to confirm compliance with NFPA 20,22 and ACCORD standards.	Factory is required to submit detailed design drawings prepared by suitably qualified consultant/company indicating design achieves positive suction in compliance with NFPA 20, 22 & Accord standard.	Design within 4 months, Install within 9 months
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13	Fire Detection and Alarm System-ITM	Inspection, testing, and maintenance (ITM) for the fire detection system is not 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 3 months (After complete installation)
14	Fire Pump ITM	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 and ACCORD standards.	Within 3 months (After complete installation)
15	Fire Protection System (ITM)	Inspection, testing and maintenance (ITM) 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 and ACCORD standards.	Within 3 months (After complete installation)
16	Fire Extinguishers (ITM)	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 and ACCORD standards.	Within 3 months
17	Fire Protection System	Fire extinguishers are not provided near generator room.	Portable fire extinguishers shall be installed throughout all new and existing facilities in accordance with NFPA 10.	Within 1 month





18	Egress Lighting	Manual on-off switch facility available for emergency lights/exit signs.	Remove manual on/off switches from emergency lighting units/ exit signs to prevent them from being switched off.	Within 1 month
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19	Emergency Lighting-ITM	Inspection, testing, and maintenance (ITM) for the emergency lighting system were not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
20	Egress Lighting	Based on the number and location of emergency lights/exit signs observed, adequate illumination levels are not anticipated along egress routes. Location: Dinning area on 3rd floor.	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

