

FIRE SAFETY INSPECTION REPORT

RATOOL APPARELS

ACCORD ID: 10829

**ANSAR ROAD, VANGNAHATI, SREEPUR PAUROSOVA,
GAZIPUR-1740**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

May 4, 2015

SUMMARY

Ratool Apparels was surveyed for fire safety on 5/4/2015 by Jensen Hughes. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. 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.

Tables 1 - 3 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. Findings And Recommendations - Industrial Shed 1

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The fire pump room is not provided with adequate fire rated separation in the utility building.	Provide fire pump room with 2 hr. rated fire separation when not sprinklered and 1 hr. rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20.	Within 3 months
 				
F-2	Fire Rated Construction	The boiler room is not separated by fire-rated construction due to openings and non-rated doors in the utility building. The compressor area is not separated by fire rated construction in the utility building.	Separate the boiler and compressor room by a minimum 1-hr fire-rated construction for non-high rise. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building, 3m (10 ft.) separation is required. Provide proper ventilation and consult a qualified engineer.	Within 3 months



F-3	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction on the ground 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 2.45m (8ft.) and maximum area of 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-4	Egress	Building did not have stair designation signs at exit stairs and occupant load signs on factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
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F-5	Egress	Egress doors with locking features are provided at exit stairs and along egress routes. All doors were not open and unlocked during the inspection.	Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and ACCORD standard 6.8.2.	Immediately
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F-6	Egress	Obstructions were located in the exterior discharge path.	Keep egress paths and stairs clear of obstructions.	Immediately
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F-7	Egress	Sliding doors are provided along egress routes.	Replace all sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month
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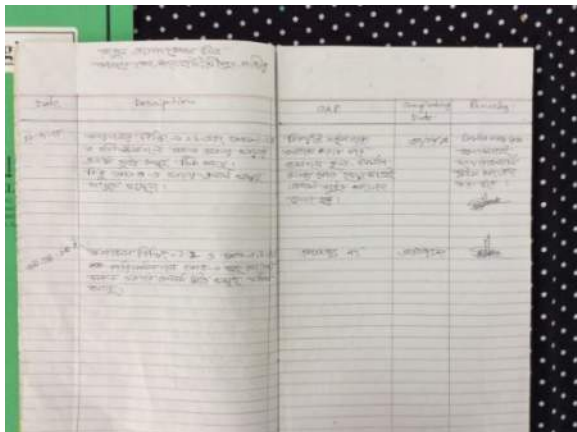


F-8	Egress	Handrails are not provided on both sides of the south and west building exit stairs.	Provide handrails on both sides of the exit stairs. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)	Within 3 months
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F-9	Fire Protection	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 months
F-10	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.	Within 3 months
F-11	Fire Protection	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 3 months



F-12	Fire Protection	Fire department inlet connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
F-13	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 3 months
F-14	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14.	Within 3 months
F-15	Fire Protection	Visible notification was not provided for the building in accordance with NFPA 72.	Provide visible notification for the building in accordance with NFPA 72.	Within 3 months
F-16	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months



F-17	Fire Protection	Automatic smoke detection system is not provided throughout the building in accordance with NFPA 72.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 9 months
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F-18	Egress Lighting	Exit signage was not provided at mezzanine floor exits.	Provide 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.	Within 1 month
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F-19	Egress Lighting	Exit signage not illuminated at building exit on the south.	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m ² may also be used.	Within 1 month
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F-20	Egress Lighting	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 ACCORD standard. Keep written records on-site.	Within 3 months
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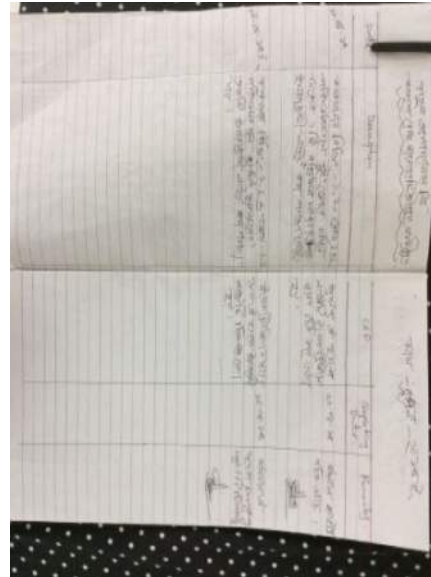
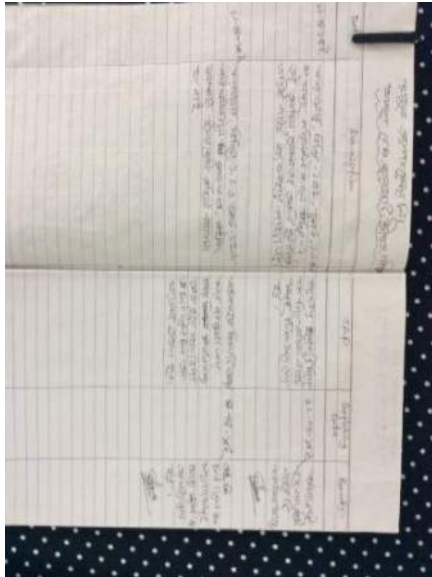


Table 2. Findings And Recommendations - Cutting Shed

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The fire pump room is not provided with adequate fire rated separation in the utility building.	Provide fire pump room with 2 hr. rated fire separation when not sprinklered and 1 hr. rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20.	Within 3 months
 				
F-2	Fire Rated Construction	The boiler room is not separated by fire-rated construction due to openings and non-rated doors in the utility building. The compressor area is not separated by fire rated construction in the utility building.	Separate the boiler and compressor room by a minimum 1-hr fire-rated construction for non-high rise. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building, 3m (10 ft.) separation is required. Provide proper ventilation and consult a qualified engineer.	Within 3 months



F-3	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction on the shed.	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 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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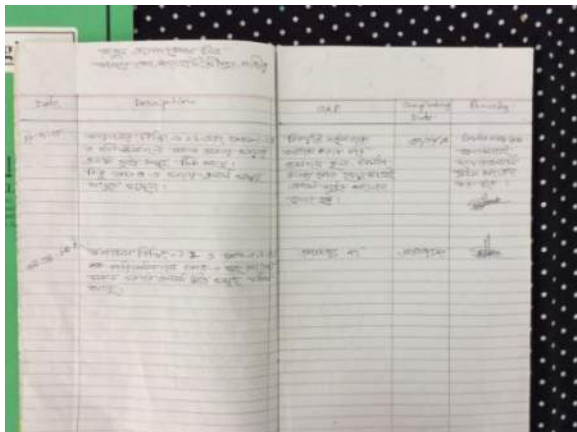
F-4	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire-rated construction in the Cutting shed.	Provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-5	Fire Rated Construction	The exit discharge path serving the east exit of Cutting shed is less than 3 m (10 ft.) 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.	Within 6 months
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F-6	Egress	Buildings did not have occupant load signs on factory floors.	Provide occupant load signs at required locations.	Immediately
F-7	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.	Within 3 months
F-8	Fire Protection	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 3 months

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F-9	Fire Protection	Fire department inlet connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
F-10	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 3 months
F-11	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14.	Within 3 months
F-12	Fire Protection	Visible notification was not provided for the buildings in accordance with NFPA 72.	Provide visible notification for the buildings in accordance with NFPA 72.	Within 3 months
F-13	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months



F-14	Fire Protection	Automatic smoke detection system is not provided throughout the building in accordance with NFPA 72.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 9 months
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F-15	Egress Lighting	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 ACCORD standard. Keep written records on-site.	Within 3 months
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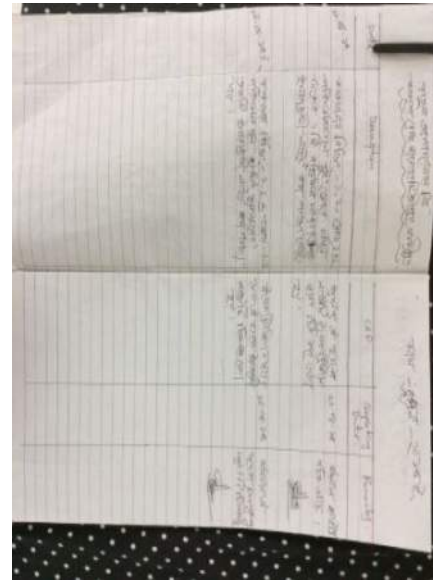


Table 3. Findings And Recommendations - Knitting Shed

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The boiler room is not separated by fire-rated construction due to openings and non-rated doors in the utility building. The compressor area is not separated by fire rated construction in the utility building.	Separate the boiler and compressor room by a minimum 1-hr fire-rated construction for non-high rise. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building, 3m (10 ft.) separation is required. Provide proper ventilation and consult a qualified engineer.	Within 3 months





F-2	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction in the shed.	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 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-3	Egress	Buildings did not have occupant load signs on factory floors.	Provide occupant load signs at required locations.	Immediately
F-4	Egress	Egress gates with locking features are provided at building exits. All doors were open and unlocked during the inspection.	Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and ACCORD standard 6.8.2.	Immediately



F-5	Egress	Storage was located in the egress path in Knitting shed and in the exterior discharge path.	Keep egress paths clear of storage.	Immediately
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F-6	Egress	Dead-end aisles exceed 15 m (50 ft.) in the Knitting Shed.	Reconfigure the egress arrangement to reduce the maximum dead-end distance to not more than 15 m (50 ft.).	Within 3 months
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F-7	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.	Within 3 months
F-8	Fire Protection	Visible notification was not provided for the buildings in accordance with NFPA 72.	Provide visible notification for the buildings in accordance with NFPA 72.	Within 3 months
F-9	Fire Protection	Automatic smoke detection system is not provided throughout the building in accordance with NFPA 72.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 9 months
F-10	Egress Lighting	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 ACCORD standard. Keep written records on-site.	Within 3 months

