

# **FIRE SAFETY INSPECTION REPORT**

## **Uttah Knitting and Dyeing Ltd. (Extension)**

**ACCORD ID: 23934**

**Google Coordinate: 24.125079, 90.389837**

**Bokran- Monipur, Hotapara, Gazipur.**

**Other Factories: Utah Fashions Ltd.\_9532 & Utah Knitting and Dyeing Ltd.\_9533**



**Inspected By: Nirmal Chandra Sinha, Md.Zahidul Islam & Md. Kamrul Hasan**

**Date: 06 January, 2020.**

# Fire Safety Inspection Report

## Uttah Knitting and Dyeing Ltd. (Extension)

### Introduction:

**Uttah Knitting and Dyeing Ltd. (Extension)** complex was surveyed for fire safety on **06/Jan/2020** by The Accord 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 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.

### 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 Accord 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.

**Findings & Recommendations :**

Table:

Table summarizes the major fire safety issues identified during the inspection of the factory building. 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.

| SI No. | Category                                          | Findings                                                                                                                                                                                                                            | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remediation Time Frame |
|--------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-01   | Fire Rated Construction<br><b>Building 9(New)</b> | <p><b>Building 9(New):</b><br/>The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction due to non-rated doors, unprotected opening and electrical cables at stair enclosure.</p> | <p>Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors.</p> <p>If fire rated 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 ACCORD standard 6.8.3.1</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> | Within 2 months        |

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| <div></div> |                         |                                                                                                                                               |                                                                                                                                       |                 |
| F-02                                                                                                                                                                                                                                                                                                                                                 | Fire Rated Construction | Room used for storage of combustible materials is not separated from the surrounding occupancy ( Location ground floor east stair enclosure). | Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. | Within 2 months |
| <div></div>                                                                                                                                                                     |                         |                                                                                                                                               |                                                                                                                                       |                 |

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| F-03                                                                               | Fire Rated Construction | Lift Machine Room is not separated from store area at 5th floor.                                              | Lift well enclosures and machine room shall be constructed with fire resistance materials. In case of fire, lift well enclosure shall not give off harmful gas or fumes. Factory shall provide minimum 1 hr separation from storage area.                                                                                                                                                                                                                                                                                                                         | Within 2 month |
|  |                         |                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
| F-04                                                                               | Egress                  | Doors along means of egress are provided with non compliant locking system at the 4th floor and ground floor. | <ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.</li> </ol> | Immeadiately   |

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| F-05                                                                                                                                                                                                    | Egress | Parapets or guards are not provided in occupiable roof is less than 42 inches ( found 36 inch). | Provide parapets or guards with a minimum height of 1067mm (42 inch.). | Within 2 months |
| <div><div></div><div></div></div> |        |                                                                                                 |                                                                        |                 |

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| F-06                                                                                                                                                                                                                                                                                                                                                | Egress | Storage, Electrical DB, Domestic water pump and IPS unit were located in the east exit stair. | Remove all storage, Electrical DB, Domestic water pump and IPS unit from exit stairs. | Immediately |
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| F-07                                                                                                                                                                                                                                                    | Egress | Headroom is less than 6 feet 8 in. (Store to stair exit)                                                    | All means of egress shall have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m(6ft8in.). The minimum ceiling height shall be maintained for at least 2/3 of the space or room as long as the remaining area shall be not less than 2.03m (6ft 8in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.). | Within 2 months |
| <div data-bbox="363 527 900 906">  </div> <div data-bbox="911 527 1566 906">  </div> |        |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                           |                 |
| F-08                                                                                                                                                                                                                                                    | Egress | Egress door serving 50 or more occupants but does not swing in the direction of egress travel (west stair). | Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 shall swing in the direction (out-ward) of egress travel .                                                                                                                                                                                       | Within 1 months |



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| <b>F-09</b> | Egress | Occupant load, stair designation sign were not present in the exit stairs.             | Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors                                                                           | Within 1 months |
| <b>F-10</b> | Egress | Exit Directional sign has been used as exit sign at exit of the building at 4th floor. | Provide illuminated exit sign at all required exit. Replace all exit directional sign which is installed at exit with exit sign to avoid confusion at the time of the evacuation. | Within 1 months |



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| F-11 | Fire Detection & Alarm System                                             | Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards (Applicable for all structures). | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review. Modification if required shall be as per review comments based on relevant standard NFPA 72 . | Design submission within 2 month and modification/additional installation Within 2 months after drawing review. |
| F-12 | 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 table 14.3.1 of NFPA 72.                                                                                             | Within 3 month                                                                                                  |

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| <b>F-13</b> | Fire Protection System                                       | The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system(Applicable for Building 9,10&11) | Submit the as-built design of fire fighting system to Accord in accordance with NFPA 14, 20 and 24 & installation should be as per the reviewed design.                                                                                                                                                      | Design submission within 2 month and modification/additional installation Within 2 months after drawing review. |
| <b>F-14</b> | Inspection, testing, and maintenance of the standpipe system | Inspsection, testing, and maintenance of the standpipe system is not in accordance with NFPA 14 or as per Accord standard.                                                                    | Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.                                                                                                                                                                     | Within 3 month                                                                                                  |
| <b>F-15</b> | Egress Lighting                                              | Exit signage not illuminated during testing (burned out, broken, etc.).                                                                                                                       | 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 2 months                                                                                                 |



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| F-16 | Inspection, testing, and maintenance of Emergency light and Exit Sign | 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 3 month  |
| F-17 | 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 2 months |

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| F-18                                                                               | Fire Rated Construction<br><b>Building 10 &amp; 11</b> | <b>Building 10 &amp; 11:</b><br>Elevator is open into an exit stair enclosure.                              | Openings into an exit enclosure other than unprotected exterior walls shall be limited to those necessary for exit access to the enclosure. In new construction, elevators shall not open into an exit enclosure. Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules according to ACCORD standard 6.14.3.                                       | Within 2 months |
|  |                                                        |                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |
| F-19                                                                               | Fire Rated Construction                                | The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. | Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. | Within 2 months |



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| F-20 | Fire Rated Construction | Boiler room is not properly separated from dryer room by fire rated construction at ground floor. | <p>1. Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr fire rated construction (wall, floor, slab etc). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p>Or</p> <p>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.</p> | Within 2 months |
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| F-21 | Fire Rated Construction | The fire pump room is not provided with adequate fire separation from boiler room in ground floor. | 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<br>Or,<br>Physically separate the pump room from the protected building by a minimum of 50 ft (15.3 m) in accordance with NFPA 20 | Within 2 months |
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| F-22 | Fire Rated Construction | Areas used for in-process storage of combustible materials are open to the surrounding occupancy (Location: 3rd floor) | <p>Provide defined storage areas and limit the storage arrangement as follows:-</p> <ol style="list-style-type: none"> <li>1. General Condition: Maximum height of 2.4m and maximum area of 23m<sup>2</sup>. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</li> <li>2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup>. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</li> </ol> <p>or</p> <ol style="list-style-type: none"> <li>3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</li> </ol> | Within 2 months |
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| F-23 | Egress | Parapets or guards are not provided in occupiable roof is less than 42 inches. | Provide parapets or guards with a minimum height of 1067mm (42 inch.). | Within 2 months |
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| <b>F-24</b> | Egress          | Fire evacuation maps is not posted at the entrance of all exit stair.                        | Fire evacuation maps shall be posted at the entrance to each exit stair.                                            | Within 2 months |
| <b>F-25</b> | Egress          | Floor no., occupant load, stair designation sign were not present in all the the exit stairs | Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors             | Within 2 months |
| <b>F-26</b> | Egress          | Width of exit stair is less than 1.5m (60 inches).                                           | Modify the stair to have a minimum width of 1.5 m (60 inches) as per ACCORD standard 6.5.6.2.1                      | Within 2 months |
| <b>F-27</b> | Egress Lighting | Manual on-off switch is provided for [exit signage] units.                                   | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 1 month  |



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| F-28 | Structural Fire Protection<br><b>Building 20</b> | <p><b>Building 20:</b><br/>Since the structure is steel-composite type and all the RCC panels are resting on the steel coloumns and the guarders. Hence, each floor of the building is not separated by a fire resistive rated construction barriers.</p> | <p>Provide fire resistive construction barriers between floors following section 4.4 and table 4.4.1 of the ACCORD standard 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.</p> | Within 6 months |
| F-29 | Egress                                           | <p>Sliding type doors have provided along means of egress at fabric inspection room.</p>                                                                                                                                                                  | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p>                                          | Within 2 months |



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| F-30 | Egress | The length of dead end of aisles exceeds 15m(50 feet). | The maxumum length of dead end of aisles shall not exceeds 15m(50 feet). | Within 2 months |
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| F-31 | Egress | Doors along means of egress are provided with non compliant locking system. | <ol style="list-style-type: none"><li>1. Remove all non compliant locking features from egress doors.</li><li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</li><li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li><li>4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.</li></ol> | Within 2 months |
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| F-32                                                                                | Egress<br>Building 16 & 17 | <p><b>Building 16 &amp; 17:</b><br/>Doors along means of egress are provided with non compliant locking system.</p> | <ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.</li> </ol> | Within 2 months |
|  |                            |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |
| F-33                                                                                | Doors & Gates              | Sliding type doors have provided along means of egress in sub-station room.                                         | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p>                                                                                                                                                                                                                                                                                                                                   | Within 2 months |



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| F-34 | Fire Pump ITM | Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25. | Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards. | Within 3 months |
|------|---------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|