

# INITIAL FIRE SAFETY INSPECTION REPORT

**Factory Name: AMC Knit Composite Ltd. (Extension)**

**RSC ID: 25619**

**Factory Address: 5508, Baniar Chala, Bhabanipur Gazipur Sadar ,Gazipur**

**Other Factories: None**



**Inspected By: A N Faisal Ahmed, Mahbub Alam Sami & Hasanat Alamgir Abeer**

**Date: 24th April 2024**

## **Fire Safety Inspection Report**

### **AMC Knit Composite Ltd. (Extension)**

#### **Introduction:**

"**AMC Knit Composite Ltd. (Extension)**." complex was surveyed for fire safety on **24 April 2024** 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.

#### **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 RSC 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.

#### **General Factory Information**

##### **Factory Building name(s):**

- 01. Production Building, 6 storied RCC**
- 02. Utility Building, 2 storied RCC**
- 03. Yarn Store Shed, Single storied steel shed**
- 04. Fire Pump Room, Single storied RCC with a basement.**
- 05. Security Building , Single storied RCC**

## 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 review.

**Table-1:**

| SI No.                                                                                                                                                                                                                                     | Category                | Findings                                                                                                                               | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Remediation Time Frame |
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| F-1                                                                                                                                                                                                                                        | Fire Rated Construction | Storage room directly discharge to exit stair enclosure without vestibules. Location: 5th Floor & Ground Floor of Production Building. | Openings from exit enclosure to storage and machine room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5- hr. fire rated door on the exit stair side and a 0.75- hr. fire rated door on the storage and machine room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1m and length 1.8m. | Within 3 months        |
| <div style="display: flex; justify-content: space-around;">   </div> |                         |                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |

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| F-2                                                                                | Fire Rated Construction | Elevator & Plumbing shafts are directly open into exit enclosure and floors. Location: Production Building.                                                             | <p>Ensure minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with 2-hr fire rated construction barrier and 1.5-hr fire rated doors. So, rearrange the facility to provide separate enclosure for lifts. If not possible anyway provide a minimum 2-hr fire- rated elevator shaft with listed fire rated lift landing door to separate from each floor level. Recommended to follow "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation. Plumbing shaft shall separate by 2-hr fire rated construction.</p> | Within 3 months |
|  |                         |                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| F-3                                                                                | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Plumbing Pipes, BBT Riser & Steam Pipe. Location: Production Building. | <p>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's guideline. (Type-1 Construction).</p> <p>or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. (Type-1 Construction).</p> <p>Floor penetration is not required where meet 4.7 (RSC Technical Guidelines)</p>                                                                                                                          | Within 3 months |



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| F-4                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Fabrics Duct, Aluminum Frame for glass wall. Location: Production Building. | Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's guideline. (Type-1 Construction).<br>or,<br>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. (Type-1 Construction).<br><br>Floor penetration is not required where meet 4.7 (RSC Technical Guidelines) | Within 3 months |
| <div><div><p>Shot on OnePlus<br/>By HANUJESHAN 2024/04/24 13:01</p></div><div><p>24 04 2024</p></div><div><p>Shot on OnePlus<br/>By HANUJESHAN 2024/04/24 13:01</p></div></div> |                         |                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |



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| F-5                                                                                 | Fire Rated Construction | Unsealed penetrations and openings are located in the exit stair enclosures due to AC duct. Location: 2nd Floor, Production Building..                                                                                 | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.                                                                                                                                                                                                                                                                                                    | Within 3 months |
|   |                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
| F-6                                                                                 | Fire Rated Construction | The egress court was less than 10 ft wide where unprotected openings within 10 ft height were available with adjacent sub-station room of utility building. Location: Stair-3 (North-West) - Main production building. | An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured between buildings) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court. | Within 3 months |
|  |                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                       |                 |

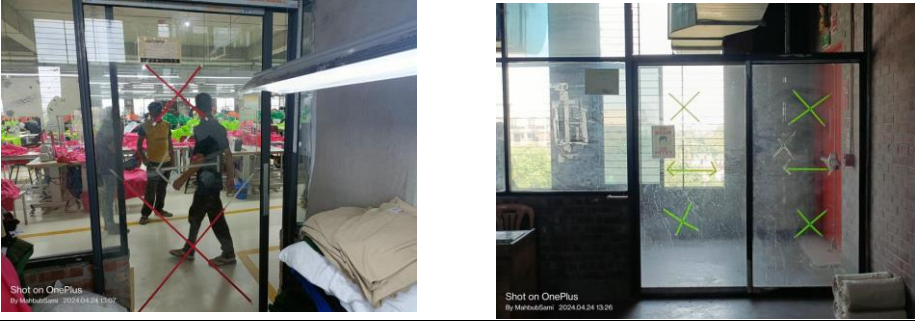
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| F-7                                                                                 | Fire Rated Construction | Rooms used for combustible storage are not separated by fire rated construction from other occupancy on 5th & Ground floors of Production Building.                                                                          | Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.                                                                                                                         | Within 3 months |
|   |                         |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |                 |
| F-8                                                                                 | Fire Rated Construction | The main production building & utility building are 9 ft 9 inch away with unprotected opening in exterior wall which doesn't meet section 3.9 of RSC Technical Guidelines. Location: Production Building & Utility Building. | All interim buildings and structures shall be separated from other buildings in accordance with BNBC 2006 Part 3 Table 3.2.2 and BNBC 2006 Part 3 Section 2.4.1.3 as per section 3.9 of RSC Technical Guidelines. Exterior walls of exit enclosures in interim and existing buildings must meet the requirements of BNBC 2006.. (See also 6.14.5). | Within 3 months |
|  |                         |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                    |                 |

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| F-9                                                                                                                                                                                                                                                           | Fire Rated Construction | Areas used for combustible storage open to the factory are not separated by fire rated construction on 5th & Ground floors of Production Building. | <p>Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.45m (8ft.) , maximum area of 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</li> <li>- If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</li> </ul> | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |



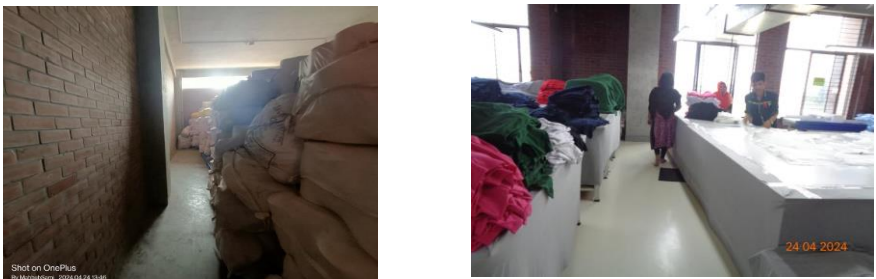
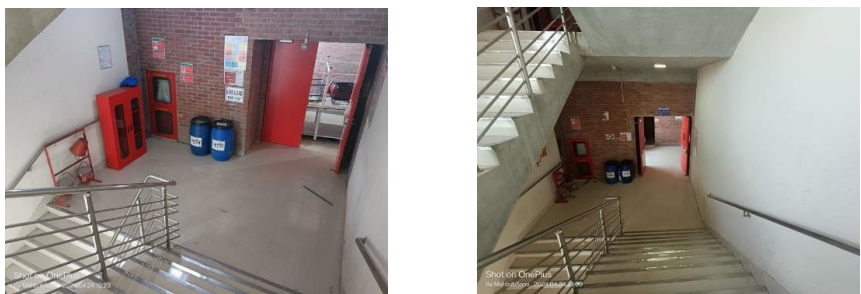
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| F-10                                                                               | Fire Rated Construction | Storage were observed underneath the cutting tables. Location: 5th floor, Production Building.                                                                       | Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with the RSC Technical Guidelines (Standard) section 3.4.2.1.6 or where automatic sprinkler protection is installed.<br>Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft. in width that are used for storage of combustibles. | Within 3 Months |
|  |                         |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
| F-11                                                                               | Fire Rated Construction | Unprotected openings in the exterior wall in two consecutive floors lying within 1.5 m and vertical spread of fire is not restricted. Location: Production Building. | Provide flame barriers as similar as sunshades or cornices or projected wall at least 750 mm from the external face of the exterior wall.<br>The flame barrier shall have a fire resistance rating of not less than three-fourths hour.<br>For Interim Building, BNBC 2006 Part III chapter 3 clause 3.1.7.2 and for new building, BNBC 2020 Part III chapter 3 clause 3.1.9.2                                                                                   | Within 6 months |

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| F-12                                                                               | Means of Egress | Egress doors/gates with locking features not complying with NFPA101 are provided. Location: Production Building, Yarn Store Shed. | Remove locking features from all egress doors/gates.<br>If locks are required for security reasons, utilize specialized door locking features complying with NFPA101. | Immediate       |
|  |                 |                                                                                                                                   |                                                                                                                                                                       |                 |
| F-13                                                                               | Means of Egress | Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.). Location: Production Building.             | Provide parapets or guards with a minimum height of 1067mm (42 inch.).                                                                                                | Within 3 months |

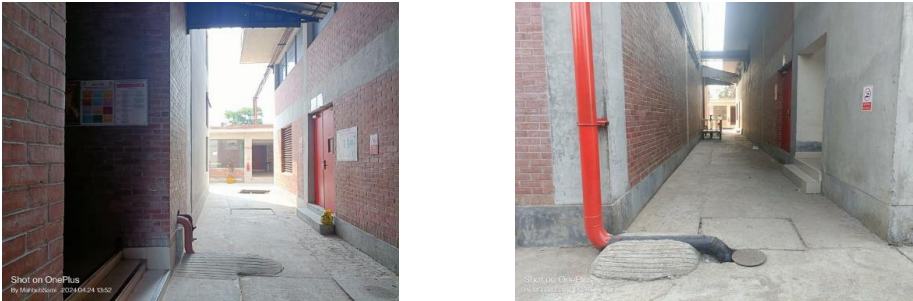
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| F-14                                                                                | Means of Egress | Sliding doors are provided at building exit. Location: Production Building.                                                                               | <p>Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.</p>         | Within 3 months |
|  |                 |                                                                                                                                                           |                                                                                                                                                                                                                                                                            |                 |
| F-15                                                                                | Means of Egress | The Stair-1 (South-East) & Stair-2 (East-Middle) do not discharging directly to the outside of the building. Location: Ground Floor, Production Building. | <p>Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).</p> <p>Or, Provide sprinkler protection for discharge floor in accordance with NFPA 13 and meet RSC Technical Guidelines Standard V1.0_Section 6.17.3.</p> | Within 3 months |

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| F-16                                                                                | Means of Egress | Exit stairs serve more than 5 stories and do not have required reentry provisions on all floors. Location: Production Building. | Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC standard 6.8.3.1. | Within 3 months |
| F-17                                                                                | Means of Egress | Electrical equipment's (AC Outdoors) & circuit breakers were located in the exit stair enclosures.                              | Remove and re-locate all equipment's & circuit breakers from exit stair enclosures.                                               | Within 3 months |
|  |                 |                                                                                                                                 |                                                                                                                                   |                 |
| F-18                                                                                | Means of Egress | Aisles were found blocked and the width of the aisles were less than 36 inch. Location: Production Building.                    | Provide minimum clear & unobstructed aisle widths of 36-in.                                                                       | Immediate       |



|                                                                                      |                 |                                                                                                            |                                                                                                                                                  |                 |
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|    |                 |                                                                                                            |                                                                                                                                                  |                 |
| F-19                                                                                 | Means of Egress | Width of aisle is less than 0.9m (36-in.) or not marked properly at several floors of Production Building. | Aisles shall be provided with a minimum unobstructed clear- width of 0.9m (36 in.).                                                              | Within 3 months |
|    |                 |                                                                                                            |                                                                                                                                                  |                 |
| F-20                                                                                 | Means of Egress | Handrails are not provided as per standard as maximum height exceeds the limit. (41 inch)                  | 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. | Within 3 months |
|  |                 |                                                                                                            |                                                                                                                                                  |                 |



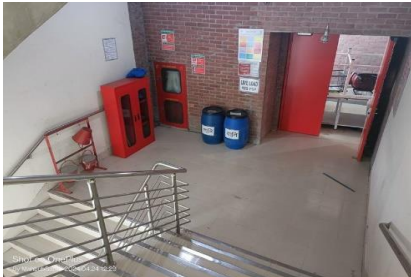
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| F-21 | Means of Egress | Uneven path of travel and blockage in exit discharge. Locations: Stair-3 (North-West)                                                 | Remove unnecessary items and level exit path to the public way.                                                        | Within 3 months |
|      |                 |                                                     |                                                                                                                        |                 |
| F-22 | Means of Egress | Width of new exit stair is less than 1.5 m (60 in.). Location: Utility Building; Stair-1 (The only stair in Utility Building).        | Provide minimum clear and unobstructed exit stair widths of 1.5 m(60 in.) in accordance with Accord standard 6.5.6.2.1 | Within 3 months |
|      |                 |                                                     |                                                                                                                        |                 |
| F-23 | Means of Egress | A single means of egress is provided at Utility Building from 1st floor which doesn't meet section 6.6.1 of RSC Technical Guidelines. | Provide minimum 2 exits from 1st floor of Utility Building.                                                            | Within 3 months |

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| F-24                                                                                | Means of Egress | Building did not have stair designation signs and occupant load signs at all required locations. Location: Utility Building.  | Provide stair designation signs and occupant load signs at all the required locations.                                                                                                                                                     | Within 3 months |
| F-25                                                                                | Means of Egress | No guard rails are provided at the required locations which may pose a falling hazard. Location: 1st Floor, Utility Building. | Provide guard rails on open side with minimum height 42 inch.<br><br>Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.). | Within 3 months |
|  |                 |                                                                                                                               |                                                                                                                                                                                                                                            |                 |

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| F-26                                                                                | Fire Rated Construction | The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Yarn Store Shed. | The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4 | Within 6 months |
|   |                         |                                                                                                                                                                                    |                                                                                                                                                                                                  |                 |
| F-27                                                                                | Means of Egress         | The maximum travel distance exceeds 30m at Yarn Store.                                                                                                                             | Exits shall be arranged in such a manner that the travel distance from any point in the area served shall not exceed 30 meter (100 ft.).                                                         | Within 3 months |
|  |                         |                                                                                                                                                                                    |                                                                                                                                                                                                  |                 |

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| F-28                                                                                                                                                                    | Means of Egress         | A single means of egress is provided at Yarn Store Shed which doesn't meet section 6.6.1 of RSC Technical Guidelines (Available travel distance 165 ft). Location: East part of Yarn Store Shed. | Rearrange the egress arrangement to meet section 6.6.1 of RSC Technical Guidelines ,<br>Or,<br>Provide minimum 2 exits from East part of Yarn Store Shed.                                                                                                                          | Within 3 months |
|                                                                                       |                         |                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                    |                 |
| F-29                                                                                                                                                                    | Fire Rated Construction | The fire pump room is not provided with adequate fire separation & safe egress from other occupancy                                                                                              | Provide fire pump room with a safe egress arrangement 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. In the case exterior it shall be 50 ft away from another occupancy. | Within 3 months |
|   |                         |                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                    |                 |



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| F-30                                                                                                                                                                                                                                                                                                                                                | Fire Rated Construction | <p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected opening, non-functional/missing door accessories, less than 2-hr rated wall enclosure, exceeds clearance between door bottom to floor etc.</p> <p>Location: Production Building &amp; Utility Building.</p> | <p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.</p> <p>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.</p> | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">    </div> |                         |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |
| F-31                                                                                                                                                                                                                                                                                                                                                | Fire Protection System  | <p>Fire extinguishers were not provided as per standard. Location: Utility Building &amp; Yarn Store Shed.</p>                                                                                                                                                                                                                                          | <p>Portable Fire Extinguishers shall install as per RSC Technical Guidelines 5.6. Extinguishers shall be placed so that maximum travel distance to the nearest unit shall not exceed 30 m (100 ft). Mounting height shall meet RSC Technical Guidelines 5.6.2.1 &amp; 5.6.2.2.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Within 3 months |

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| F-32                                                                               | Fire Protection System               | Fire extinguishers were found located floors but were not mounted to the wall or clearance from floor doesn't maintained as per As per NFPA 10 section 6.1.3.8.3. Location: Yarn Store Shed. | In no case shall the clearance between the bottom of the fire extinguisher and the floor be less than 4 in.(102 mm). As per NFPA 10 section 6.1.3.8.3                                                                                                                                                                                                                                              | Within 3 months                                                      |
|  |                                      |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| F-33                                                                               | Fire Alarm & Detection System (FADS) | The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified. Location: All Buildings                                                | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA- 72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance. | Design within 2 months, installation/modification on within 4 months |

|      |                        |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |
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| F-34 | Fire Detection ITM     | Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72. Location: All Buildings                                                       | Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.                                                                                                                                                                                                                                                                                                                                                                 | Within 1 month after installation                                    |
| F-35 | Fire Protection System | Fire Fighting System (Standpipe & Sprinkler System) installed and requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 & RSC Technical Guidelines (Standard) | The high-rise building has an occupied floor greater than 23 meter (75 feet) where required automatic sprinkler protection is installed through the factory. Sprinkler system is mandatory for the building based on height and type of construction but the Sprinkler System installed for the building along with standpipe system. However, both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard). | Design within 2 months, installation/modification on within 4 months |
| F-36 | Standpipe ITM          | Inspection, testing and maintenance of the Standpipe system is not found in accordance with NFPA 14.                                                                                | Inspect, Test & Maintain Standpipe System and keep written record as per NFPA 14 & NFPA 25.                                                                                                                                                                                                                                                                                                                                                                                         | Within 1 month after installation                                    |
| F-37 | Fire Pump ITM          | Inspection, testing and maintenance of the fire pump system is not found 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 RSC standards.                                                                                                                                                                                                                                                                                                                                                     | 1 month after installation                                           |
| F-38 | Fire Extinguishers ITM | Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location: All Buildings                                                       | Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC standards.                                                                                                                                                                                                                                                                                                                                           | Within 3 month                                                       |
| F-39 | Egress Lighting        | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All Buildings                        | 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                                                      |

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| F-40 | Emergency Lighting<br>ITM | <p>Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.</p> <p>Location: All Buildings</p> | Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site. | Within 3 months |
|------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|