

# INITIAL FIRE SAFETY INSPECTION REPORT

## Knit Plus Limited (Unit-2)

**RSC ID: 25556**

**Jahar Chanda, Belma, Ashulia, Savar.**

Geographical Coordinates of factory building: 23°53'55.0"N 90°17'31.9"E

**Other Factories: N/A**



**Inspected By: Mohammad Anayet Hossain, Yusuf Ahmed and Protik Kumar Das**

**Date: 09 Dec-2024 & 29 Dec-2024**

# Fire Safety Inspection Report

## Knit Plus Limited (Unit-2)

### Introduction:

**Knit Plus Limited (Unit-2)** complex was surveyed for fire safety on 09 & 29 December 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

- 1. Building-1:** 5-storied steel building. [Construction: Sep'2013 - Dec'2016; Occupied: Apr'2016. Interim; Area: 11527 m2]
- 2. Building-2:** Office building. 5-storied (G+4) RC building. [Construction: Feb'2011 - Dec'2015; Occupied: Jan'2016. Interim; Area: 1650 m2]
- 3. Building-3:** Sub-station building. 3-storied (G+2) RC building. [Construction: Oct'2017 - Dec'2020; Occupied: Jan'2021. Interim; Area: 1637 m2]
- 4. Building-4:** Utility building. Single storied RC building. [Construction: Nov'2010 - Feb'2011; Occupied: Nov'2011. Existing; Area: 205 m2]
- 5. Building-5:** Embroidery building. 6-storied (G+5) RC building. [Construction: Feb'2020 - Dec'2023; Occupied: Jan'2024. Interim; Area: 7519 m2]
- 6. Building-6:** ETP Building. 3-storied (G+2) RC building with a mezzanine floor between GF and 1st floor. [Construction: Sep'2020 - Mar'2022; Occupied: Sep'2023. Interim; Area: 4684 m2]
- 7. Building-7:** Fire control room. Single storied RC with underground fire pump room and water reservoir. [Construction: Jun'2021 - Dec'2021; Occupied: Feb'2022. New; Area: 121 m2]
- 8. Building-8:** Gas boiler building. Single storied RC building. [Construction: Jan'2021 - Dec'2021; Occupied: Feb'2022. Interim; Area: 117 m2]
- 9. Building-9:** Maintenance office building. Single storied RC building. [Construction: Sep'2021 - Dec'2021; Occupied: Feb'2022. New; Area: 70 m2]
- 10. Building-10:** Old ETP building. Single storied RC building. [Construction: Nov'2011 - Oct'2012; Occupied: Mar'2013. Existing; Area: 859 m2]
- 11. Shed-1:** Dyeing shed. Single storied steel building with a mezzanine floor. [Construction: Nov'2010 - May'2011; Occupied: Nov'2011. Existing; Area: 2818 m2]
- 12. Shed-2:** Poly shed. Single storied steel building. [Construction: Nov'2018 - Mar'2019; Occupied: Aug'2019. Interim; Area: 372 m2]
- 13. Shed-3:** AOP shed. Single storied steel building with a mezzanine floor. [Construction: Nov'2019 - Aug'2020; Occupied: Jan'2021. Interim; Area: 3525 m2]
- 14. Shed-4:** Store shed. 2-storied (G+1) steel structure. [Construction: Nov'2020 - Mar'2021; Occupied: Jun'2021. Interim; Area: 697 m2]
- 15. Shed-5:** Carton shed. Single storied steel structure with a mezzanine floor. [Construction: Oct'2020 - May'2021; Occupied: Aug'2021. Interim; Area: 1060 m2]
- 16. Shed-6:** Sample dyeing shed. Single storied steel structure with mezzanine floor. [Construction: Jan'2020 - Jun'2020; Occupied: Oct'2020. Interim; Area: 1110 m2]
- 17. Shed-7:** Boiler shed. Single storied steel structure. [Construction: Aug'2016 - Nov'2016; Occupied: Dec'2016. Interim; Area: 390 m2]

- 18. Shed-8:** AOP finishing shed. Single storied steel structure. [Construction: Aug'2016 - Dec'2016; Occupied: Jan'2017. Interim; Area: 2059 m2]
- 19. Shed-9:** EGB shed. Single storied steel structure. [Construction: Jan'2017 - Mar'2017; Occupied: Jun'2017. Interim; Area: 359 m2]
- 20. Shed-10:** Gas generator shed. Single storied steel structure. [Construction: Dec'2010 - Mar'2011; Occupied: Jun'2011. Interim; Area: 174 m2]
- 21. Shed-11:** Brush & dryer shed. Single storied steel structure. [Construction: Oct'2021 - Dec'2021; Occupied: Jan'2022. New; Area: 568 m2]
- 22. Shed-12:** Chemical store shed. Single storied steel structure. [Construction: Jan'2023 - Feb'2023; Occupied: Mar'2023. New; Area: 208 m2]
- 23. Shed-13:** Wastage store shed. Single storied steel structure. [Construction: Jan'2023 - Feb'2023; Occupied: Mar'2023. New ; Area: 260 m2]
- 24. Shed-14:** Breeding shed. Single storied steel structure. [Construction: Sep'2023 - Nov'2023; Occupied: Jan'2024. New ; Area: 154 m2]
- 25. Shed-15:** Footwear shed. Single storied steel structure. [Construction: Aug'2023 - Oct'2023; Occupied: Jan'2024. New ; Area: 223 m2]
- 26. Shed-16:** Embroidery shed. Single storied steel structure. [Construction: Nov'2022 - Jan'2023; Occupied: Mar'2023. New ; Area: 490 m2]
- 27. Shed-17:** Maintenance workshop. Single storied steel structure. [Construction: Feb'2023 - Apr'2023; Occupied: May'2023. New ; Area: 233 m2]
- 28. Shed-18:** Chemical sub-store. 2-storied (G+2) steel structure. [Construction: Jun'2021 - Aug'2021; Occupied: Nov'2021. Interim ; Area: 112 m2]
- 29. Shed-19:** Gray fabrics store. Single storied steel structure. [Construction: Jul'2024 - Nov'2024; Occupied: Dec'2024. New ; Area: 790 m2]
- 30. Shed- 20:** Sample dyeing shed. Single storied steel structure. [Construction: Nov'2024 - Dec'2024; Occupied: Dec'2024. New ; Area: 107 m2]
- 31. Shed- 21:** Sludge store shed. Single storied steel structure. [Construction: Sep'2022 - Oct'2022; Occupied: Dec'2022. Interim ; Area: 61 m2]
- 32. Shed- 22:** WTP shed. Single storied steel structure. [Construction: Nov'2024 - Dec'2024; Occupied: Dec'2024. New ; Area: 113 m2].

**Factory Address: Jahar Chanda, Belma, Ashulia, Savar.**

## Findings & Recommendations :

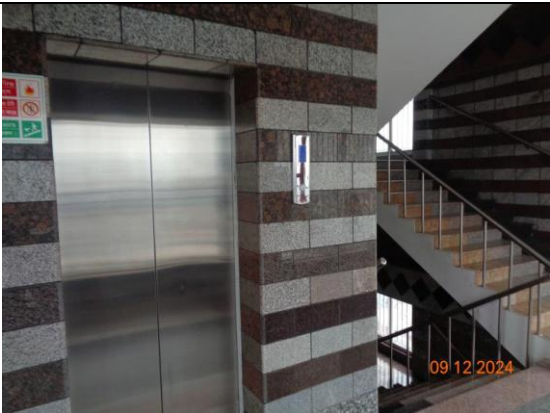
Table 1-6 summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

| Table No. | Building                          | Total Finding | Finding Range  | Remarks |
|-----------|-----------------------------------|---------------|----------------|---------|
| Table 1   | Building-2: Office building       | 26            | F-1 to F-26    |         |
| Table 2   | Building-03: Sub-station Building | 25            | F-27 to F-51   |         |
| Table 3   | Building-5: Embroidery Building   | 28            | F-52 to F-79   |         |
| Table 4   | Building-01                       | 32            | F-80 to F-111  |         |
| Table 5   | Building-6: ETP Building.         | 19            | F-112 to F-130 |         |
| Table 6   | Shed-1 to Shed-22                 | 36            | F-131 to F-166 |         |

**Table-1: Finding & recommendation for Building-2: Office Building**

| SI No.                                                                              | Category                | Findings                                                                                                                                                                                                      | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Remediation Time Frame |
|-------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-1                                                                                 | Means of Egress         | <p>The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. .</p> <p>Location: Building-2 (Office 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 1-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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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        |
|  |                         |                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |
| F-2                                                                                 | Fire Rated Construction | <p>Elevator shafts open directly into the exit enclosure, which is a violation of RSC Technical Guidelines (Standard) 6.14.3.</p> <p><b>Location:</b> Stair-1 (SW-Stair) of Building-2 (Office building).</p> | <p>Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal all openings to maintain fire separations.</p> <p>Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Within 3 months        |

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| F-3                                                                                 | Fire Rated Construction | <p>Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.</p> <p>Location: Ground floor of Building-2 (Office building).</p> | <p>Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour.</p> <p>Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13.<br/>or,<br/>Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006)</p> | Within 3 months |
|  |                         |                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |

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| F-4                                                                                | Means of Egress         | <p>Exit Stair-1 discharge the occupant inside the building on the ground floor.</p> <p>Location: Ground floor of Stair-1 (SW-Stair) of Building-2 (Office building).</p>                                                    | <p>1. Modify stair to discharge directly outside.<br/>Or<br/>2. Provide 1-hr/2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).</p> <p>Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.</p>                                                                                                                                                                                                                                                                                                                                                                             | Within 3 months |
|  |                         |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| F-5                                                                                | Fire Rated Construction | <p>Unsealed penetrations are located in the fire-rated floor/ceiling assemblies in between the exterior wall and due to electrical cable riser &amp; PVC plumbing pipes.</p> <p>Location: Building-2 (Office building).</p> | <p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor level.</p> <p>Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install the passive fire protection system (If required).</p> | Within 3 months |

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| F-6 | Fire rated construction | <p>Rooms used for storage of combustibile materials are not separated from the surrounding occupancy/areas.</p> <p>Location: 2nd floor of Building-2.</p>                                                                                         | <p>Rooms used for storage of combustibile materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).</p>                                                                                                                                                                                                                                                                                                                                                                         | Within 3 months                                                                     |
|     |                         |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     |
| F-7 | Means of Egress         | <p>Handrails are provided on both sides of exit stair1 (SW-Stair) on all floors, but the intermediate rails pattern is more than 8 in. and the height is less than 34 in.</p> <p>Location: Stair-1 (SW-Stair) of Building-2 (Office Building)</p> | <p>Provide handrails on both sides of the exit stair. 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.).</p> <p>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.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.12.</p> | Within 3 months                                                                     |

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| F-8                                                                                 | Means of Egress         | <p>Sliding type doors have provided along means of egress [building exits, exit stairs, along egress routes, exit discharge].</p> <p>Location: 1st, 2nd 4th floors of Building-2 (Office Building).</p> | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type. Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p> | Within 3 months |
|  |                         |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| F-9                                                                                 | Fire Rated Construction | <p>Prayer (E4 occupancy) area is not separated from Store (H2) &amp; Office (F) occupancy with fire rated assemblies.</p> <p>Location: 3rd floor of Building-2.</p>                                     | <p>Separate the Prayer area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations.</p> <p>Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.</p>                                                                                                                                         | Within 3 months |

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| F-10 | Fire Rated Construction | The required fire separation distance does not comply with the requirements of BNBC 2006<br><br>Location: Building-2 (Office Building). | The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3. / BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.                                                                                                                   | Within 6 months |
| F-11 | Mean of Egress          | Parapets or guards (found=26 inch) are provided in roof which is less than 1067mm (42 inch.).                                           | Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.12.<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-12 | Means of Egress | Building does not have stair/floor level designation signs at required locations on all floors. I.<br><br>Location: Building-2 (Office building). | Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.9.3.                                                                    | Within 2 months |
| F-13 | Means of Egress | Updated Fire evacuation maps is not posted at the entrance of all exit stair.<br><br>Location: Building-2 (Office building).                      | Update the fire evacuation map and shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 13.3.                                                                                                                                                                                                    | Within 2 months |
| F-14 | Means of Egress | Building does not have occupant load signs at required locations on all floors.<br><br>Location: Building-2 (Office building).                    | Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4.                                                                                                                             | Within 2 months |
| F-15 | Means of Egress | A single means of exit has been provided.<br><br>Location: 2nd, 3rd & 4th floor (Roof top) of Building-2 (Office building).                       | The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard), section 6.6.2.<br><br>Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6 | within 3 months |
| F-16 | Means of Egress | Directional signs are not provided where direction of the path of travel to an exit has changed.<br><br>Location: 1st floor office building       | Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.11.3.                                                                                                                            | Within 2 months |

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| F-17 | Means of Egress      | Exit sign not provided at exit.<br>Location:                                                                                                                                                                                                                                 | Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.<br>Lighted exit signs shall be provided with either battery backup or uninterruptible power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.11. | Within 2 months |
| F-18 | Means of Egress      | Dead-end aisle( found=65 feet) exceed 50 feet at 2nd floor lab section and at ground floor chemical storage areas dead end aisle is provided, which is not allowed.<br><br>Location: 2nd floor (Lab Section) & ground floor (Chemical room) of office building (Building-2). | Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).<br><br>For new construction: The requirement of dead end corridor shall be in accordance with BNBC 2020 Part 4 Section 3.15.4. & Table 4.3.8.                                                                                                                                                                                      | within 3 months |
| F-19 | Means of Egress      | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Location:                                                                                                                        | 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 10.12.2.                          | Within 3 months |
| F-20 | Egress lighting(ITM) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0..                                                                                                  | Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. Keep written records on-site.                                                                                                                                                                                                                                                                                     | Within 3 months |

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| F-21 | Fire Alarm & Detection System (FADS)     | <p>The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.</p> <p>Location: Building-2 (Office Building)</p>                                                               | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |
| F-22 | Fire Detection System (ITM of FADS)      | Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard                                                                                                          | Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.                                                                                                                                                                                                                                                                | Within 1 month (after installation)                                |
| F-23 | Fire Protection System(Standpipe)        | <p>The factory has installed a standpipe &amp; Hose system that requires a detailed review to confirm compliance with NFPA 14,20, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: Office building (Building-2).</p> | <p>Submit the standpipe system drawing to RSC for review.</p> <p>Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. and NFPA 14, 20,22 and 24.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>                                          | Design within 2 month and modification/ installation with 4 months |
| F-24 | Fire Protection System(ITM of Standpipe) | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per RSC standard                                                                                                       | Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 14, 25 or as per RSC standard                                                                                                                                                                                                                                                                                                  | Within 1 month (after installation)                                |
| F-25 | Fire Protection System(ITM of Fire Pump) | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per RSC standard                                                                                                              | Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20, 25 or as per RSC standard.                                                                                                                                                                                                                                                                                                        | Within 1 month (after installation)                                |

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| F-26 | Fire Protection System(ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard. | Within 3 months |
|------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

**Table-2: Finding & recommendation for Building-3: Sub-Station Building**

| SI No.                                                                              | Category                | Findings                                                                                                                                                           | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Remediation Time Frame |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-27                                                                                | Fire Rated Construction | <p>Generator room is not properly separated by fire rated construction with other Occupancies/Areas (Store Room).</p> <p>Location: Ground floor (Building-03).</p> | <p>Generator room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr 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> <p>Generator room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard).</p> | Within 3 months        |
|  |                         |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |

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| F-28                                                                               | Fire Rated Construction | <p>Elevator shafts open directly into the exit enclosure, which is a violation of RSC Technical Guidelines (Standard) 6.14.3.</p> <p>Location: Building-03 (Stair-1 (South-Stair)).</p> | <p>Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal all openings to maintain fire separations.</p> <p>Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.</p>                               | Within 3 months |
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| F-29                                                                               | Fire Rated Construction | <p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Plastic Plumbing pipes.</p> <p>Location: Building-3 (Sub-station Building).</p>     | <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 datasheet.</p> <p>Or</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p> | Within 3 months |

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| F-30                                                                               | Fire Rated Construction | <p>The required fire separation distance does not comply with the requirements of BNBC 2006</p> <p>Location: Building-3 (Sub-station Building).</p> | <p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3. / BNBC 2020 Part 3 Table 3.2.2 &amp; 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.</p> | Within 6 months |

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| F-31                                                                                | Means of Egress | <p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: Building-3 (Sub-station 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 1-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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
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| F-32 | Means of Egress | Chemical room/areas discharges directly into the exit stair enclosure.<br><br>Location: Building-03 (Stair-1 & Stair-2). | Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. . Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m. | Within 3 months |
| F-33 | Mean of Egress  | A single means of exit has been provided.<br><br>Location: 1st & 2nd floor (East Zone) of Building-3.                    | The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard), section 6.6.2.<br><br>Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6                                                                                                                                                                                                                                                                                                                                                   | within 3 months |



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| F-34                                                                               | Mean of Egress  | <p>Dead-end aisle provided (found: 69 feet) at chemical store room (J-occupancy), which is not allowed.</p> <p>Location: 1st &amp; 2nd floor of Building-3.</p>                                                                                   | <p>Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).</p> <p>For new construction: The requirement of dead end corridor shall be in accordance with BNBC 2020 Part 4 Section 3.15.4. &amp; Table 4.3.8.</p>                                                                                                                                                                                                                                                                                                 | Within 3 months |
|  |                 |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
| F-35                                                                               | Means of Egress | <p>Handrails are provided on both sides of exit stair1 (SW-Stair) on all floors, but the intermediate rails pattern is more than 8 in. and the height is less than 34 in.</p> <p>Location: Stair-1 (SW-Stair) of Building-2 (Office Building)</p> | <p>Provide handrails on both sides of the exit stair. 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.).</p> <p>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.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.12.</p> | Within 3 months |



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| F-36 | Means of Egress | <p>Stair clear width was found less than 60 in. (Stair-02 (NW-Stair) clearance width 48 inch).</p> <p>Location: Building-03 (Stair-2).</p>                               | <p>Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6</p>                                                                                                                                                                 | Within 3 months |
| F-37 | Means of Egress | <p>Electrical panels were located in the exit stair enclosure. Water pump was located in the exit stair enclosure.</p> <p>Location: Building-03 (Stair-2, Roof top).</p> | <p>Remove and re-locate all electrical panels and water pumps from exit stair enclosures.</p> <p>Or,</p> <p>Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p>                                                             | Within 2 months |
| F-38 | Means of Egress | <p>Building does not have stair/floor level designation signs at required locations on all floors. I.</p> <p>Location: Building-3 (Sub-station Building).</p>            | <p>Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.9.3.</p> | Within 2 months |

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| F-39 | Means of Egress | <p>Updated Fire evacuation maps is not posted at the entrance of all exit stair.</p> <p>Location: Building-3 (Sub-station Building).</p>                    | <p>Update the fire evacuation map and shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 13.3.</p>                                                                                                                                                                                                                                                                                            | Within 2 months |
| F-40 | Means of Egress | <p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: Building-3 (Sub-station Building).</p>                  | <p>Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.4.4.</p>                                                                                                                                                                                                                     | Within 2 months |
| F-41 | Means of Egress | <p>Exit sign not provided at exit.</p> <p>Location: Building-3 (Sub-station Building).</p>                                                                  | <p>Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.11.</p> | Within 2 months |
| F-42 | Means of Egress | <p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: Building-3 (Sub-station Building).</p> | <p>Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.</p>                                                                                                                                                                                                                                                                                                           | Within 2 months |

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| F-43 | Means of Egress      | Manual on-off switch is provided for [emergency lighting / exit signage] units.<br><br>Location: Building-3 (Sub-station Building).                                                      | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off                                                                                                                                                                                                                                                                                                                                | Within 2 months |
| F-44 | Means of Egress      | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Location: Building-3 (Sub-station Building). | 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 10.12.2. | Within 3 months |
| F-45 | Egress lighting(ITM) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.                                                        | 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 |

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| F-46 | Fire Alarm & Detection System (FADS) | <p>The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.</p> <p>Location: Building-3 (Sub-station Building).</p>                                                          | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |
| F-47 | Fire Detection System (ITM of FADS)  | <p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard</p>                                                                                                    | <p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.s.</p>                                                                                                                                                                                                                                                          | Within 1 month (after installation)                                |
| F-48 | Fire Protection System (Standpipe)   | <p>The factory has installed a standpipe &amp; Hose system that requires a detailed review to confirm compliance with NFPA 14, 20, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: Office building (Building-2).</p> | <p>Submit the standpipe system drawing to RSC for review.</p> <p>Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. and NFPA 14, 20, 22 and 24.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>                                         | Design within 2 month and modification/ installation with 4 months |

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| F-49 | Fire Protection System(ITM of Standpipe)    | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per RSC standard   | Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 14, 25 or as per RSC standard    | Within 1 month (after installation) |
| F-50 | Fire Protection System(ITM of Fire Pump)    | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per RSC standard          | Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20, 25 or as per RSC standard.          | Within 1 month (after installation) |
| F-51 | Fire Protection System(ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard. | Within 2 months                     |

Table-3: Finding & recommendation for Building-5: Embroidery Building.

| Sl No. | Category                | Findings                                                                                                                                                       | Required Action                                                                                                                             | Remediation Time Frame |
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| F-52   | Fire Rated Construction | <p>The Compressor room is not separated by fire-rated construction ((openings, non-rated doors, penetrations).</p> <p>Location: Ground floor of Building-5</p> | Separate the air compressor room by a minimum 2-hr fire rated construction. Seal and/or protected all openings to maintain fire separations | Within 3 months        |
|        |                         |                                                                              |                                                                                                                                             |                        |

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| F-53 | Fire Rated Construction | <p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction.</p> <p>Location: 1st, and 4th of Building-05.</p>                                    | <p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or,<br/>Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:-</p> <p>1. General Condition: Maximum height of 2.4m (8 ft) and maximum area of 23 m<sup>2</sup> (250 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).</p> <p>2. If sprinkler protected: Maximum height of 3.66 m (12 ft) and maximum area of 93 m<sup>2</sup> (1000 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).</p> <p>Note: Do not exceed 10 percent of the building area of the story in which they occur.</p> | Within 3 months |
| F-54 | Fire Rated Construction | <p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas (specify the occupancy/area, location and construction materials of room).</p> <p>Location: Building-05 (Embroidery building).</p> | <p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)</p> <p>Note: Do not exceed 10 percent of the building area of the story in which they occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Within 3 months |

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| F-55                                                                                                                                                                                                                                                          | Fire Rated Construction | <p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Plastic Plumbing pipes and electrical cable shaft.</p> <p>Location: Building-05 (Embroidery building).</p> | <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 datasheet.</p> <p>Or</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p> | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                      |                 |
| F-56                                                                                                                                                                                                                                                          | Fire Rated Construction | <p>Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3.</p> <p>Location: Building-5 (Stair-1, NW-Stair).</p>                              | <p>In new and interim construction, an exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure.</p>                                                                        | Within 3 months |



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| F-57 | Fire Rated Construction | <p>Dining (E4 occupancy) area is not separated from production (G2 occupancy) with fire rated assemblies.</p> <p>Location: Building-5 (5th Floor).</p> | <p>Separate the dining area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations.</p> <p>Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.</p> | Within 3 months |
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| F-58 | Means of Egress         | <p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: Location: Building-05 (Embroidery 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 1 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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
| F-59 | Fire Rated Construction | <p>Storage room discharges directly into exit stair enclosure.</p> <p>Location: 5th Floor (Stair-2/West Stair) &amp; 2nd floor (Stair-1 &amp; Stair-2) of Building-5.</p>                   | <p>Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. . Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Within 3 months |

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| F-60 | Means of Egress | <p>The maximum travel distance exceeds allowable limit, which is not meet Section 6.13 of RSC Technical Guidelines (Standard) shall meet.</p> <p>Location: Building-5 (2nd &amp; 5th floors).</p>      | <p>Reconfigure the egress arrangement or provide additional exits so that the travel distance shall not exceed 45 m.</p> <p>or,</p> <p>Provide a standpipe system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire detection system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 60 m (200 ft).</p> <p>or,</p> <p>Provide a complete automatic sprinkler system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire alarm system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 122 m (400 ft).</p> | Within 3 months |
| F-61 | Means of Egress | <p>Exits are not remotely located from each other such that a single fire event could compromise both exits.</p> <p>Location: Building-5 (Stair-1 &amp; Stair-2) and 5th floor (Store room exits).</p> | <p>Specify appropriate upgrade based on conditions:-</p> <ol style="list-style-type: none"> <li>1. Modify exit arrangement to meet RSC Technical Guideline standard V1-6.6.6.</li> </ol> <p>OR</p> <ol style="list-style-type: none"> <li>2. Provide additional exit(s) to meet RSC Technical Guideline Standard V1-6.6.6.</li> </ol>                                                                                                                                                                                                                                                                                                                                                              | Within 3 months |
| F-62 | Mean of Egress  | <p>Common path of egress travel exceeds the allowable limit as per the Section 6.13.2 of RSC Technical Guidelines (Standard)</p> <p>Location: Building-05 (1st, 2nd, 3rd, 4th &amp; 5th floors).</p>   | <p>Reconfigure the egress arrangement to reduce the maximum common path of travel.</p> <p>The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft).</p> <p>Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p>                                                                         | within 3 months |

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| F-63 | Mean of Egress  | Dead-end corridor exceed the allowable limit.<br><br>Location: Building-05 (1st, 2nd, 3rd, 4th & 5th floors).                                                                                                        | Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).                                                                                                                                                                                                   | Within 3 months |
| F-64 | Means of Egress | Stair clear width was found less than 60 in. (Stair-02 (NW-Stair) clearance width 48 inch).<br><br>Location: Building-05 (Stair-2).                                                                                  | Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6                                                                                                                                                                                               | Within 3 months |
| F-65 | Mean of egress  | Aisles were found missing on several locations throughout the building.<br><br>Location: Location: Building-05 (Embroidery building).                                                                                | Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.                                                                                                                                                                                                                                                              | Within 3 months |
| F-66 | Mean of egress  | Parapets or guards are not adequately provide in occupiable roof and the guards have gaps that are too large, allowing a sphere 200 mm (8 in.) in diameter to pass through.<br><br>Location: Building-05 (Roof-top). | Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.12.<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 2 months |

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| F-67 | Mean of egress  | Updated Fire evacuation maps is not posted at the entrance of all exit stair.<br>Location:Building-05.                      | Updated Fire evacuation maps shall be posted at the entrance to each exit stair.                                                                                                                                                                                                                                                                                                                                                                                           | Within 2 months |
| F-68 | Means of Egress | Building does not have stair/floor level designation signs at required locations on all floors. I.<br>Location:Building-05. | Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.9.3.                                                                                                                                                               | Within 2 months |
| F-69 | Means of Egress | Building does not have occupant load signs at required locations on all floors.<br>Location:Building-05.                    | Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4.                                                                                                                                                                                                                        | Within 2 months |
| F-70 | Means of Egress | Exit sign not provided at exit.<br>Location:Building-05.                                                                    | Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.<br>Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.11. | Within 2 months |

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| F-71 | Means of Egress      | Directional signs are not provided where direction of the path of travel to an exit has changed.<br><br>Location:Building-05.                                     | Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.                                                                                                                                                                                                                                                                                      | Within 2 months |
| F-72 | Means of Egress      | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Location:Building-05. | 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 10.12.2. | Within 3 months |
| F-73 | Egress lighting(ITM) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.                                 | 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 |

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| F-74 | Fire Alarm & Detection System (FADS) | <p>The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.</p> <p>Location: Location: Building-05 (Embroidery building).</p>                                                              | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |
| F-75 | Fire Detection System (ITM of FADS)  | <p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard</p>                                                                                                                  | <p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.s.</p>                                                                                                                                                                                                                                                          | Within 1 month (after installation)                                |
| F-76 | Fire Protection System (Standpipe)   | <p>The factory has installed a standpipe &amp; Hose system that requires a detailed review to confirm compliance with NFPA 14,20, 24 and RSC Technical Guidelines (Standard).</p> <p>Location: Location: Building-05 (Embroidery building).</p> | <p>Submit the standpipe system drawing to RSC for review.</p> <p>Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. and NFPA 14, 20,22 and 24.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>                                          | Design within 2 month and modification/ installation with 4 months |

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| F-77 | Fire Protection System(ITM of Standpipe)    | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per RSC standard   | Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 14, 25 or as per RSC standard    | Within 1 month (after installation) |
| F-78 | Fire Protection System(ITM of Fire Pump)    | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per RSC standard          | Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20, 25 or as per RSC standard.          | Within 1 month (after installation) |
| F-79 | Fire Protection System(ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard. | Within 3 months                     |

**Table-4: Finding & recommendation for Building-1.**

| SI No.                                                                             | Category                | Findings                                                                                                                                                                              | Required Action                                                                                                                                                                                                                                                                                                        | Remediation Time Frame |
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| F-80                                                                               | Fire Rated Construction | <p>Elevator shafts open directly into the production floor without proper fire separation due to unprotected opening.</p> <p>Location: Ground floor to 3rd floor, Building-1.</p>     | Elevator shaft shall be separated from production area by 2 hours fire rated construction. 2-hr fire barriers shall be protected with minimum 1.5-hr fire protective opening assemblies.                                                                                                                               | Within 3 months        |
|  |                         |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                        |                        |
| F-81                                                                               | Fire Rated Construction | <p>Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3.</p> <p>Location: Stair-2 exit enclosure, Building-1.</p> | <p>Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal all openings to maintain fire separations.</p> <p>Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.</p> | Within 3 month         |



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| F-82 | Means of Egress | <p>The guards have gaps that are too large, allowing a sphere 200 mm (8 in.) in diameter to pass through.</p> <p>Location: Roof floor of Building - 01.</p> | <p>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.).</p> | Within 2 months |
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| F-83                                                                               | Means of Egress | <p>Parapets or guards are provide in occupiable roof but the parapet height was found to be less than 1067 mm (42 in.).<br/>Location: Roof top rest room, Building-1.</p> <p>Also, accessible balcony has been provided from stair-1 on 2nd floor without guard/parapets.</p> | <p>Guards shall be provided at all open sides of means of egress that exceed 760 mm (30 in.) above the floor or finished ground below. Guards shall have a minimum height of 1067 mm (42 in.).</p> <p>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.). Guard shall construct in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.12.</p> | Within 2 months |
|  |                 |                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |

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| F-84 | Means of Egress | <p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected openings. Proper certification was not available for fire rated doors installed in the factory. The required 3rd party listing label was not observed on the door frame and door accessories.</p> <p>During the inspection, it was noted that the fire doors were not effectively latching and door coordinator were not properly functional.</p> <p>Location: Building-1.</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 1 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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
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| F-85                                                                                                                                                                                                                                    | Mean of Egress | <p>The exterior of the stair-1 is enclosed by nonrated walls or unprotected openings, which are exposed to other parts of the building at an angle of less than 180 degrees (3.14 rad).</p> <p>Location: Stair-1, Building-1.</p> | <p>Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad), the building exterior walls within 3050 mm (10 ft) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 2hr in accordance with section 6.3.1.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p>                                                                                                                    | within 3 months |
| <div style="display: flex; justify-content: space-around;">   </div> |                |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
| F-86                                                                                                                                                                                                                                    | Mean of Egress | <p>Handrails are not provided on both sides of each exit stairs on all floors. Having handrails on one side of said staircase, may pose as a falling hazard during evacuation.</p> <p>Location: Stair-2, Building-1.</p>          | <p>Provide handrails on both sides of the exit stair. 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.).</p> <p>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.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.12.</p> | Within 2 months |



|      |                 |                                                                                                                     |                                                                                                                     |                 |
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| F-87 | Means of Egress | Manual on-off switch is provided for emergency lighting / exit signage units.<br>Location:All floors of Building-1. | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 2 months |
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| F-88                                                                               | Fire Rated Construction | <p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy.</p> <p>Location: Yarn store on 4th floor is not separated from the compressor room and Grey fabric store on 1st floor is not separated from the dyeing section due to unprotected openings.</p> | Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)                                     | Within 3 months |
|  |                         |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     |                 |
| F-89                                                                               | Fire Rated Construction | <p>The required fire separation distance does not comply with the requirements of BNBC 2006</p> <p>Location: Building-1.</p>                                                                                                                                                                         | The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3. / BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.                             | Within 6 months |
| F-90                                                                               | Means of Egress         | <p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: Building-1.</p>                                                                                                                                                                                  | Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4. | Within 2 months |

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| F-91                                                                              | Mean of egress | <p>Storage areas and compressor room discharges directly into the exit stair enclosure.</p> <p>Location: Building-1.</p>                                                               | <p>Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ compressor rooms/generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store and compressor room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. section 6.14.3.</p> <p>The minimum width for vestibules shall not be less than 1.1m and length 1.8m.</p> | Within 3 months |
|  |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| F-92                                                                              | Mean of egress | <p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: All floors of Building-1.</p> | <p>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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 10.12.2.</p>                                                                                                                                                                                                                                                                                             | Within 3 months |

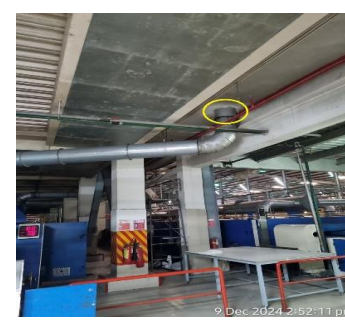


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| F-93 | Means of Egress | <p>Headroom measured less than the 80 inch.</p> <p>Location: RC portion of Building-1. In each floor of the steel building, the RC portion is divided into 2 floors where the bottom portion headroom was found 5'-6" and the top portion headroom was found 6'-5".</p> | <p>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 (6 ft 8 in.). 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 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.) as per RSC Technical Guideline (Standard) section of 6.3.3.</p> | Within 3 months |
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| F-94                                                                                 | Means of Egress | <p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All floors of Building-1.</p>                                           | Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.11.3. | Within 2 months |
|     |                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                      |                 |
| F-95                                                                                 | Means of Egress | <p>Stair clear width was found less than 60 in. (Stair-01, 02 &amp; 03 clearance width was found 44 in, 45 in. and 53 in respectively).</p> <p>Location: Stair-1, 2 and 3 of Building-1.</p> | Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6                                                                                                          | Within 3 months |
|  |                 |                                                                                                                                                                                              |                                                                                                                                                                                                                                                      |                 |

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| F-96                                                                               | Means of Egress         | <p>Sliding type doors have been provided along means of egress [building exits, exit stairs, along egress routes, exit discharge].</p> <p>Location: Coller section, 3rd floor; Office section, ground floor; beside stair-3, ground floor; north exit, ground floor of Building-1.</p> | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type.</p> <p>Roll--down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p>                                                                                                                         | Within 1 month  |
|  |                         |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| F-97                                                                               | Fire Rated Construction | <p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p>Location: Unsealed penetration by fabric chute and stenter machine pipe were observed in Building-1.</p>                                                                                                   | <p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p> | Within 3 months |



|      |                         |                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |
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| F-98 | Fire Rated Construction | <p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p>Location: Ground floor and 2nd floor of Building-1.</p> | <p>Provide defined storage areas and limit the storage arrangement as follows:</p> <p>Maximum height of 2.45 m and maximum area of 23 m<sup>2</sup> and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur.</p> <p>or,</p> <p>If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft<sup>2</sup> (93 m<sup>2</sup>) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft<sup>2</sup> (372 m<sup>2</sup>) of the sprinklered area, whichever is greater.</p> <p>or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p> | Within 3 months |
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| F-99                                                                              | Means of Egress | <p>Exit signage/directional signage not illuminated during testing (burned out, broken, etc.).</p> <p>Location: 1st floor of Building-1.</p> | <p>Regularly inspect all exit signage/directional signage as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. and replace/install lights as needed to illuminate signs.</p>                                                                                                                                                                                                                                                                                                 | Within 2 months |
|  |                 |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| F-100                                                                             | Means of Egress | <p>Exit sign not provided at exit.</p> <p>Location: Ground floor of Building-1.</p>                                                          | <p>Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.</p> <p>Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.11.</p> | Within 2 months |



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| F-101                                                                              | Means of Egress | <p>Electrical panels were located in the exit stair enclosure.</p> <p>Location: Ground floor, stair-1 enclosure of Building-1.</p> | <p>Remove and re-locate all electrical panels from exit stair enclosures.</p> <p>Or,</p> <p>Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> | Within 3 months |
|  |                 |                                                  |                                                                                                                                                                                                                                        |                 |

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| F-102                                                                              | Means of Egress | <p>Exit stair(s) terminates the occupants inside the building which is not in accordance with section 6.15 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: Exit stair-1 discharges the occupants inside the loading-unloading area and office area of Building-1.</p> | <p>1. Modify stair to discharge directly outside.<br/>Or<br/>2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).</p> <p>Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.</p> | Within 3 months |
|  |                 |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
| F-103                                                                              | Means of Egress | <p>Unsealed penetrations and openings are located in exit stair enclosures.</p> <p>Location(s): Ground floor and 3rd floor of Building-1.</p>                                                                                                                                                   | <p>Seal/protect all penetrations with a minimum 2-hr rated fire stop system. No other penetration into and through the exit enclosure except for fire alarm equipment electrical raceway, required exit doors, sprinkler piping, standpipes, and electrical conduit serving the exit enclosure is permitted in accordance with section 6.14.4 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p>     | Within 3 months |



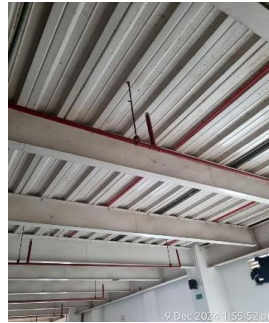
|       |                         |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |
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| F-104 | Fire Rated Construction | <p>The main structural element of the interim building is steel which is non-rated construction and were found in exposed condition without any fire protection.</p> <p>Location: Building-1.</p> | <p>As per RSC Technical Guideline and BNBC 2006, The Fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.</p> | Within 6 months |
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| F-105 | Fire Alarm & Detection System (FADS) | <p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: Building-1.</p> | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |
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| F-106 | Inspection, Testing & Maintenance (Fire) | 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 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.                                                                                                                                                                                                                                                                                                        | Within 1 Month after installation.                                 |
| F-107 | Fire Suppression System (SUPS)           | <p>The highest occupied floor of the main building is over 75 feet above grade, mandating a sprinkler system along with a class I standpipe. The factory has installed a sprinkler system with a class III standpipe, requiring a detailed review to ensure compliance with NFPA 13, 14, 20, 22, and 24 and RSC Technical Guidelines (Standard).</p> <p>Location: Building-1.</p> | <p>Submit the fire Suppression System (fire pump, standpipe and sprinkler) design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire Suppression System throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 13, 14, 20, 22 and 24.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |



|       |                                          |                                                                                                                                                                             |                                                                                                                                                                                        |                                    |
|-------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| F-108 | Inspection, Testing & Maintenance (Fire) | 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 RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.              | Within 1 month after installation. |
| F-109 | Inspection, Testing & Maintenance (Fire) | Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.                                                                    | Inspect, test and maintain the automatic sprinkler system and keep written records on- site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.   | Within 1 month after installation. |
| F-110 | Inspection, Testing & Maintenance (Fire) | Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.                                                                              | Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.              | Within 1 month after installation. |
| F-111 | Inspection, Testing & Maintenance (Fire) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.. | Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. Keep written records on-site. | Within 1 month                     |

**Table-5: Finding & recommendation for Building-6: ETP Building.**

| SI No.                                                                            | Category                | Findings                                                                                                                                                                              | Required Action                                                                                                                                                                                                                                                                                                        | Remediation Time Frame |
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| F-112                                                                             | Means of Egress         | <p>Aisles were found missing on several locations throughout the building.</p> <p>Location: 2nd floor of Building-6.</p>                                                              | Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.                                                                                                                                                                                                                                           | Within 1 month         |
|  |                         |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                        |                        |
| F-113                                                                             | Fire Rated Construction | <p>Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3.</p> <p>Location: Stair-1 exit enclosure, Building-6.</p> | <p>Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal all openings to maintain fire separations.</p> <p>Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.</p> | Within 3 month         |



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| F-114 | Fire Rated Construction | <p>Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.</p> <p>Location: At the south side of the Building-6 on ground floor, a chemical shed was found which is located in between stair-1 and stair-2 area. It has unprotected opening with the building and the exit stairs. Also egress court of Building-6 is exposed to this chemical shed.</p> | <p>Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour.</p> <p>Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13.</p> | Within 3 months |
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| F-115                                                                              | Fire Rated Construction | <p>The required fire separation distance does not comply with the requirements of BNBC 2006</p> <p>Location: Building-1.</p>                                                                                                                                           | <p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3. / BNBC 2020 Part 3 Table 3.2.2 &amp; 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.</p>                                                                                                                                                                                                                                                                                                                           | Within 6 months |
| F-116                                                                              | Means of Egress         | <p>The egress court serving south exits is less than 10 ft wide and is not separated from the building interior which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: South side of Building-6.</p> | <p>Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) 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.</p> <p>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.</p> <p>Alternatively, provide a second remote discharge path to the public way (only include this if feasible).</p> | Within 3 months |
|  |                         |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |

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| F-117 | Means of Egress | <p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected openings. During the inspection, it was noted that the fire doors were not effectively latching and door coordinator were not properly functional.</p> <p>Location: Building-6.</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 1-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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
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| F-118 | Mean of Egress  | <p>Building does not have stair/floor level designation signs at required locations on all floors.</p> <p>Location: Building-6.</p> | <p>Provide stair designation sign at at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.9.3.</p> | Within 1 month |
| F-119 | Means of Egress | <p>Manual on-off switch is provided for emergency lighting / exit signage units.</p> <p>Location:All floors of Building-6.</p>      | <p>Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.</p>                                                                                                                                                                                            | Within 1 month |



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| F-120                                                                              | Fire Rated Construction | <p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy.</p> <p>Location: Fabric store is not separated from the finishing section on 1st floor of Building-6.</p> | Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)                                     | Within 3 months |
|  |                         |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                     |                 |
| F-121                                                                              | Means of Egress         | <p>Building does not have occupant load signs at required locations on all floors.</p> <p>Location: Building-6.</p>                                                                                            | Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4. | Within 1 month  |

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| F-122                                                                             | Mean of egress | <p>Storage areas discharges directly into the exit stair enclosure.</p> <p>Location: Stair-2 of Building-6.</p>                                                                        | <p>Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ compressor rooms/generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. section 6.14.3.</p> <p>The minimum width for vestibules shall not be less than 1.1m and length 1.8m.</p> | Within 3 months |
|  |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| F-123                                                                             | Mean of egress | <p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: All floors of Building-6.</p> | <p>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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 10.12.2.</p>                                                                                                                                                                                                                                                                              | Within 3 months |



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| F-124 | Means of Egress | <p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All floors of Building-6.</p>                                                 | <p>Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.11.3.</p>                                                                                                                                                                                                  | Within 3 months |
| F-125 | Means of Egress | <p>Sliding type doors have been provided along means of egress [building exits, exit stairs, along egress routes, exit discharge].</p> <p>Location: Jacquard section, 2nd floor of Building-6.</p> | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type.</p> <p>Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p> | Within 1 month  |



|                                                                                    |                                      |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
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| F-126                                                                              | Means of Egress                      | <p>Exit stair(s) terminates the occupants inside the building which is not in accordance with section 6.15 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: Both exit stair-1 and stair-2 discharge the occupants inside the ground floor area of the Building-6.</p> | <p>1. Modify stair to discharge directly outside.<br/>Or<br/>2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).</p> <p>Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.</p>                            | Within 3 months                                                    |
|  |                                      |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
| F-127                                                                              | Fire Alarm & Detection System (FADS) | <p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Location: Building-6.</p>                                                                                    | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 month and modification/ installation with 4 months |



|       |                                          |                                                                                                                                                                             |                                                                                                                                                                                        |                                    |
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| F-128 | Inspection, Testing & Maintenance (Fire) | 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 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.             | Within 1 Month after installation. |
| F-129 | Inspection, Testing & Maintenance (Fire) | Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.                                                                       | Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.  | Within 1 month                     |
| F-130 | Inspection, Testing & Maintenance (Fire) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.. | Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. Keep written records on-site. | Within 1 month                     |

**Table-6: Finding & recommendation for Shed-1 to Shed-22.**

| SI No. | Category                | Findings                                                                                                                                                                                                                          | Required Action                                                                                                                                                                                                                                                                                                                                                                                                  | Remediation Time Frame |
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| F-131  | Fire Rated Construction | <p>Boiler or furnace room is not properly separated by fire rated construction with other occupancies/areas.</p> <p>Location: Shed-7 (Boiler shed) is not separated from Shed-15 (Footwear shed) due to unprotected openings.</p> | 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. | Within 3 months        |



|       |                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |
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| F-132 | Fire Rated Construction | <p>Generator room is not properly separated by fire rated construction with other Occupancies/Areas.</p> <p>Location: Shed-1.</p> | <p>Generator room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr 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> <p>Generator room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard)</p> | Within 1 month |
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| F-133                                                                                                                                                                              | Mean of egress  | <p>Aisles were found missing on several locations throughout the building.</p> <p>Location: All Shed.</p>                                                                           | <p>Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.</p>                                                                                                                                                                                                                                                                                                                                                                          | Within 3 months |
| F-134                                                                                                                                                                              | Means of Egress | <p>Sliding type doors have been provided along means of egress [building exits, exit stairs, along egress routes, exit discharge].</p> <p>Location: Shed- 1, 3, 11, 14, 15, 17.</p> | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type.</p> <p>Roll--down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p> | Within 1 month  |
| <div>   </div> |                 |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |

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|-------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-135 | Means of Egress | <p>The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. .</p> <p>Location: Shed-4 (Both Stairs), Shed-6</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 1 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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
| F-136 | Means of Egress | <p>Exit stairs are discharge the occupant inside the building on the ground floor.</p> <p>Location: Shed-4 (Both Stairs), Shed-6.</p>                              | <p>1. Modify stair to discharge directly outside.</p> <p>Or</p> <p>2. Provide 1-hr/2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).</p> <p>Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Within 3 months |

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| F-137 | Means of Egress | <p>Exit Passageway terminates the occupants in interior building exit discharge, which is not in accordance with section 6.17 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: Shed-3 [Exit-1(NE-Exit), Exit-2(SE-Exit)]</p> | <p>Exits shall discharge directly to the exterior of the building unless meeting the requirements of 6.17.2 or 6.17.3 as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Within 3 months |
| F-138 | Means of Egress | <p>The maximum travel distance exceeds allowable limit, which is not meet Section 6.13 of RSC Technical Guidelines (Standard) shall meet.</p> <p>Location: Shed-8 (West side), Shed-3 (South side)</p>                                                | <p>Reconfigure the egress arrangement or provide additional exits so that the travel distance shall not exceed 45 m.</p> <p>or,</p> <p>Provide a standpipe system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire detection system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 60 m (200 ft).</p> <p>or,</p> <p>Provide a complete automatic sprinkler system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire alarm system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 122 m (400 ft).</p> | Within 3 months |

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| F-139 | Mean of Egress  | <p>Common path of egress travel exceeds the allowable limit as per the Section 6.13.2 of RSC Technical Guidelines (Standard)</p> <p>Location: Shed-1.</p> | <p>Reconfigure the egress arrangement to reduce the maximum common path of travel.</p> <p>The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft).</p> <p>Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p> | within 3 months |
| F-140 | Mean of Egress  | <p>Dead-end aisle/corridor exceed the allowable limit.</p> <p>Location: Shed-1, 11.</p>                                                                   | <p>Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Within 3 months |
| F-141 | Means of Egress | <p>Stair clear width was found less than 60 in.</p> <p>Location: Shed-4, Shed-6,</p>                                                                      | <p>Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Within 3 months |
| F-142 | Means of Egress | <p>Headroom measured less than the 80 inch.</p> <p>Location: Shed-1, Shed-11 &amp; 17 (Pocket door).</p>                                                  | <p>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 (6 ft 8 in.). 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 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.) as per RSC Technical Guideline (Standard) section of 6.3.3.</p>                                                                                                                                                                         | Within 3 months |

|       |                |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |
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| F-143 | Mean of egress | <p>Parapets or guards are not adequately provide in occupiable roof and the guards have gaps that are too large, allowing a sphere 200 mm (8 in.) in diameter to pass through.</p> <p>Location: Shed-1 (Mezzanine). Shed-4,</p>                                                                                            | <p>Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.12.</p> <p>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.).</p>                                                                                                                                                                                                              | Within 1 month  |
| F-144 | Mean of egress | <p>The egress court is less than 10 ft wide and is not separated from the building interior which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: Shed-2 (South-side exit), Shed-3 (NE-side exit), Shed-5 (East-side exit), Shed-18 (NE-side exit),</p> | <p>Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) 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.</p> <p>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.</p> <p>Alternatively, provide a second remote discharge path to the public way (only include this if feasible).</p> | Within 3 months |
| F-145 | Mean of egress | <p>Uneven walking surface were found and exceed a slope of 1 in 20 in the direction of travel.</p> <p>Location: Shed-18.</p>                                                                                                                                                                                               | <p>Walking surfaces shall be mostly level; however, shall not exceed a slope of 1 in 20 in the direction of travel unless meeting the requirements for ramps in 6.10 shall meet the requirements for RSC Technical Guidelines (Standard)<sup>1</sup> V1.0 Section 6.3.4.2</p>                                                                                                                                                                                                                                                                                | Within 3months  |

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| F-146 | Mean of egress  | Changes in level was found 24 in. where RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.9 or 6.10 doesn't meet.<br><br>Location: Shed-2, Shed-8, | Changes in level exceeding 535 mm (21 in.) in elevation shall meet the requirements for stairs in 6.9 or ramps in 6.10.<br>The change in level shall be readily apparent and if not, marked with additional signage or floor markings.                                                                       | Within 3months |
| F-147 | Mean of egress  | Updated Fire evacuation maps is not posted at the entrance of all exit stair.<br><br>Location: All sheds.                                                        | Updated Fire evacuation maps shall be posted at the entrance to each exit stair.                                                                                                                                                                                                                             | Within 3months |
| F-148 | Means of Egress | Building does not have stair/floor level designation signs at required locations on all floors.<br><br>Location: All sheds.                                      | Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.9.3. | Within 1 month |
| F-149 | Means of Egress | Building does not have occupant load signs at required locations on all floors.<br><br>Location: All sheds.                                                      | Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4.                                                          | Within 1 month |

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| F-150 | Egress lighting | Exit sign not provided at exit.<br>Location: All sheds.                                                                                                      | Lighted exit signs shall be placed at entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.<br>Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.11. | Within 1 month  |
| F-151 | Egress lighting | Directional signs are not provided where direction of the path of travel to an exit has changed.<br>Location: All sheds.                                     | Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.                                                                                                                                                                                                                                                                                                               | Within 1 months |
| F-152 | Means of Egress | Manual on-off switch is provided for emergency lighting / exit signage units.<br>Location: All sheds.                                                        | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.                                                                                                                                                                                                                                                                                                                                                        | Within 1 month  |
| F-153 | Means of Egress | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br>Location: All sheds. | 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 10.12.2.                          | Within 3 months |

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| F-154 | Egress lighting(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 sheds.</p>                                              | <p>Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.</p>                                                                                                                                                                                                                                                                                                                                       | Within 3months  |
| F-155 | Fire Rated Construction | <p>The main structural element of the new building is steel which is non-rated construction and were found in exposed condition without any fire protection.</p> <p>Location: Shed-11, 13, 14, 15, 16, 19 20.</p> | <p>The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.</p> | Within 6 months |

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| F-156 | Fire Rated Construction | <p>The main structural element of the interim building is steel which is non-rated construction and were found in exposed condition without any fire protection.</p> <p>Location: Shed- 2, 3, 4, 5, 6, 8, 21.</p> | <p>As per RSC Technical Guideline and BNBC 2006, The Fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.</p> | Within 6 months |
| F-157 | Fire Rated Construction | <p>The required fire separation distance does not comply with the requirements of BNBC 2006</p> <p>Location: All sheds.</p>                                                                                       | <p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3. / BNBC 2020 Part 3 Table 3.2.2 &amp; 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Within 6 months |

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| F-158 | Fire Rated Construction | <p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction.</p> <p>Location: Shed-1, 3, 5, 6, 8, 11, 16, 17, 18, 19</p>               | <p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or,<br/>Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:-</p> <p>1. General Condition: Maximum height of 2.4m (8 ft) and maximum area of 23 m<sup>2</sup> (250 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).</p> <p>2. If sprinkler protected: Maximum height of 3.66 m (12 ft) and maximum area of 93 m<sup>2</sup> (1000 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).</p> <p>Note: Do not exceed 10 percent of the building area of the story in which they occur.</p> | Within 3 months |
| F-159 | Fire Rated Construction | <p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas (specify the occupancy/area, location and construction materials of room).</p> <p>Location: Shed-3, 5, 6, 8, 13, 19</p> | <p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard)</p> <p>Note: Do not exceed 10 percent of the building area of the story in which they occur.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Within 3 months |

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| F-160 | Fire Rated Construction | <p>Flammable liquid (diesel tank) was found without the required fire separation distance and exterior wall rating, as per BNBC 2006/ BNBC 2020 requirements.</p> <p>Location: In between Shed 17 (SE-Corner) &amp; Shed-6, and west side of Shed-6.</p> | <p>The diesel tank shall be separated or exterior walls shall have a fire resistance and opening protection in accordance with BNBC 2006/ 2020 Part 3 Table 3.2.2 and BNBC 2020 Part 3 Section 2.4.1.3.</p> <p>Additionally a license must be obtained in accordance with the Petroleum Act for all storage of Class II petroleum greater than 1000 L (264 gal) individually and 2000 L (528 gal) aggregate and storing criteria shall be followed as per the license provided by the Department of Explosives Bangladesh.</p> | Within 3 months |
| F-161 | Fire Rated Construction | <p>Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.</p> <p>Location: Shed-3, 12, 18</p>                                                                                   | <p>Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour.</p> <p>Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13.<br/>or,<br/>Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006)</p>          | Within 3 months |

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| F-162 | Fire Rated Construction | <p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p>Location: 02-Storied Shed-4 (1st floor and 2nd floor not separated), Shed-6 (Ground &amp; 1st floor not separated).</p> | <p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr./ 2-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p> <p>Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install the passive fire protection system (If required).</p> |  |
| F-163 | Fire Rated Construction | <p>The fire pump room is not provided with adequate fire separation from the parking area.</p> <p>Location: Building-7 (North side).</p>                                                            | <p>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. Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

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| F-164 | Fire Alarm & Detection System (FADS)     | <p>The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.</p> <p>Location: All sheds.</p>            | <p>Submit the fire alarm and detection system design to RSC for review.</p> <p>Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p> | Design within 2 months, Install within 4 months. |
| F-165 | Fire Detection System (ITM of FADS)      | <p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.</p> <p>Location: All sheds.</p> | Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.                                                                                                                                                                                                                                                                | Within 1 month (after installation)              |
| F-166 | Inspection, Testing & Maintenance (Fire) | <p>Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.</p> <p>Location: All sheds.</p>                    | Inspect, test and maintain the portable fire extinguishers and keep written records on-site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.                                                                                                                                                                                                                                                      | Within 1 month                                   |