

# INITIAL FIRE SAFETY INSPECTION REPORT

## Mega Yarn Dyeing Mills Ltd (Extension 2)

RSC ID: 24731

Address: Sardagonj, Gobindabari, Kashimpur, Gazipur.

Geographical Coordinates: 23.96542729, 90.28632428

### Other Factories:

1. Mega Yarn Dyeing Mills Ltd (ID: 9507)
2. Mega Yarn Dyeing Mills Ltd. (Expansion) & Mega Fashion Wear Ltd. (ID: 24157)



Inspected By: Hamed Mustakim & A N Faisal Ahmed

Date: 18 December, 2023

# Fire Safety Inspection Report

## Mega Yarn Dyeing Mills Ltd (Extension 2)

### Introduction:

**Mega Yarn Dyeing Mills Ltd (Extension 2)** Complex was surveyed for fire safety on **18 December, 2023** by The RSC Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

### Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The RSC cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

## General Factory Information

### Factory Building name(s):

1. Building-12 (New ETP building) ; RCC Construction, B+G+M+6 ; 120028 sft  
Construction: Jan'2017 to Dec'2019 ; Occupying date: Jan'20 ; **Interim Building**
2. Building-13 (Raw Yarn store shed) ; Single Storied steel shed ; 23408 sft  
Construction: Jun'2015 to Dec'2015 ; Occupying date: Jan'16 ; **Interim Building**
3. Building-14 (Nylon winding shed) ; Single Storied steel shed ; 12997 sft  
Construction: Feb' 2018 to Aug '2018 ; Occupying date: Aug'18 ; **Interim Building**
4. Building-15 (Hard winding shed) ; Single Storied steel shed ; 4751 sft  
Construction: Nov' 2017 to Feb '2018 ; Occupying date: Feb'18 ; **Interim Building**
5. Building-16 (Boiler shed 1); Single Storied steel shed ; 2851 sft  
Construction: Jul' 2017 to Jan '2017 ; Occupying date: Feb'17 ; **Interim Building**

6. Building-16 (Boiler shed 1); Single Storied steel shed ; 2851 sft  
Construction: Jul' 2017 to Jan '2017 ; Occupying date: Feb'17 ; **Interim Building**
7. Building-17 (Finished yarn store) ; Single Storied steel shed ; 2594 sft  
Construction: Nov' 2018 to Feb '2019 ; Occupying date: Feb'19 ; **Interim Building**
8. Building-18 (Chemical store) ; Single Storied steel shed ; 2540 sft  
Construction: Nov' 2018 to Feb '2019 ; Occupying date: Feb'19 ; **Interim Building**
9. Building-19 (Local winding shed) ; Single Storied steel shed ; 2716 sft  
Construction: Apr' 2020 to Aug '2020 ; Occupying date: Sep' 20 ; **Interim Building**
10. Building-20 (LPG shed) ; Single Storied steel shed ; 1801 sft ; Height: 12'-11"  
Construction: Jan' 2022 to Apr '2022 ; Occupying date: May'22 ; **New Building**
11. Building-21 (Yarn store) ; Single Storied steel shed ; 7802 sft ; Height: 17 ft.  
Construction: Mar' 2022 to Jul '2022 ; Occupying date: Jul'22 ; **New Building**
12. Building-22 (Salt store shed) ; Single Storied steel shed ; 2016 sft; Height: 14 ft.  
Construction: Aug' 2022 to Jan '2023 ; Occupying date: Jan' 23 ; **New Building**
13. Building-23 (Boiler shed 2) ; Single Storied steel shed ; 4601 sft; Height: 19'-8"  
Construction: Apr' 2023 to Nov'2023 ; Occupying date: Nov'23 ; **New Building**
14. Building-24 (Wastage shed) ; Single Storied steel shed ; 538 sft  
Construction: Jun' 2018 to Jul '2018 ; Occupying date: Jul'18 ; **Interim Building**

**Factory Address: Sardagonj, Gobindabari, Kashimpur, Gazipur.**

**Findings & Recommendations :**

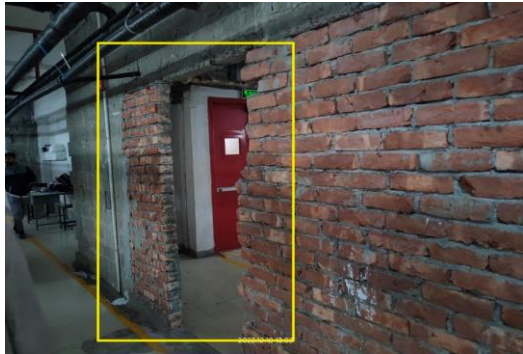
Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

**Table-1: Finding & recommendation**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	<p>The exit stairs are not separated from work areas by fire rated construction due to unprotected opening, improper fixing of door frame &amp; door accessories were found missing . Moreover, door, frame &amp; accessories documents were not available. Stair enclosure fire wall was 1-hr rated.</p> <p style="text-align: center;"><b>Location: Building-12</b></p>	<p>Provide minimum 2-hr rated fire wall and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p> <p>Fire door shall install as per manufacturer guidelines. Clearance under the bottom of a door shall be a maximum of 3/4in. (19 mm). Product datasheet, certificate shall keep available at site for fire door, frame &amp; accessories.</p>	Within 3 Months



F-2	Fire-Rated Construction	<p>Building -12 is connected with Building-03 and separated by a 5 inch brick wall where some unprotected opening &amp; penetration were found.</p> <p><b>Location: Building-12</b></p>	<p>Provide minimum 2-hr rated fire wall and 1.5-hr fire rated doors where access opening is required for operation purposes between two connected buildings. Penetration in wall assemblies shall be protected by 2-hr fire-rated listed/certified materials.</p>	Within 3 Months
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F-3	Fire Rated Construction	<p>Chemical store room discharged directly into the exit stair enclosures without vestibules which is a violation of RSC Technical Guidelines (Standard)- 6.14.3.</p> <p><b>Location: 1st floor, Building-12</b></p>	<p>Openings from exit enclosure to chemical storage shall be provided with a vestibule with fire rated construction and openings. Provide a 2 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p> <p>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-4	Fire rated Construction	<p>Areas used for combustible storage open to the factory are not maintained or separated by fire rated construction.</p> <p><b>Location: 6th,4th &amp; 2nd floor (Building-12)</b></p>	<p>Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: -  Maximum height of 2.45m (8ft.) , maximum area of 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</p> <ul style="list-style-type: none"> <li>- If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2).</li> <li>-In process storage shall be limited to 10 percent of the building area of the story in which they occur.</li> </ul>	Within 3 months
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F-5	Fire Rated Construction	<p>Building expansion joint has been observed without protection to prevent smoke or fire propagation from one floor to another floor.</p> <p><b>Location: Building-12</b></p>	<p>Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with an approved material having the same degree of fire resistance as that of the floor/ceiling in which it is installed.</p>	Within 3 months
				
F-6	Fire rated Construction	<p>The dining area is not separated from other occupancy.</p> <p><b>Location: Mezzanine floor (Building-12)</b></p>	<p>Separate the dining area by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.</p>	Within 3 months



				
F-7	Fire Rated Construction	<p>Office area are not fire separated from Prayer area &amp; combustible materials has been used as a separation wall.</p> <p style="text-align: center;"><b>Location: Ground floor (Building-12)</b></p>	<p>Separate the office area by minimum 2-hr fire-rated construction from assembly occupancy. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction.</p>	Within 3 months



F-8	Fire Rated Construction	<p>Rooms used for chemical storage are not properly separated by fire rated construction due to inadequate slab thickness (160 mm). Opening was observed with ETP Lab &amp; Machine room. Unprotected floor penetration was also observed.</p> <p><b>Location: 1st Floor, Building-12</b></p>	<p>Provide a minimum 4-hr fire-rated construction barrier (For required slab thickness, follow Table 4.1.1- BNBC-2006) or other fire-rated listed/certified materials to separate the chemical stores from each floor level. The installation of such fire-rated materials shall follow a certified design. Opening is not permitted for 4-hrs fire rated separation. Minimum two exit shall provide. Floor/slab penetration shall seal properly. Note: Construction type shall be Type-1 and separation shall be as per Table 3.2.1 of BNBC-2006.</p>	Within 3 Months
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F-9	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies.          Location: Sanitary pipe on toiler area.</p> <p><b>Location: Building-12</b></p>	<p>Provide a minimum 2-hr fire-rated shaft to separate the sanitary pipe from each floor level          or          seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design.</p>	Within 3 Months
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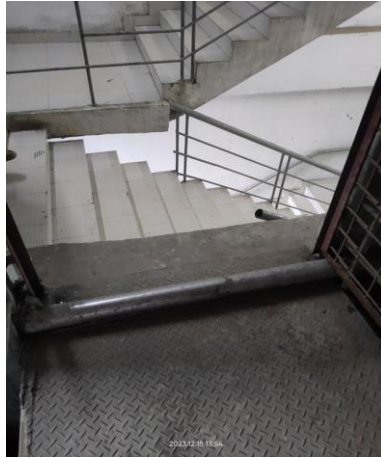
F-10	Fire Rated Construction	<p>First floor occupants from ETP Lab office area shall discharge through chemical store. Occupants directed from low hazard area to high hazard area are not permitted during evacuation.</p> <p><b>Location: 1st floor. (Building-12)</b></p>	<p>A rated exit passageway shall provide from ETP lab office for secondary exit . The passageways shall be constructed in accordance with 2-hr rated fire wall and 1.5-hr fire rated doors/openings protective materials.</p> <p>Or</p> <p>Provide a secondary exit from ETP lab office area.</p>	Within 3 months
F-11	Fire Rated Construction	<p>The exit discharge path [stair-02] is less than 10 ft wide &amp; is not separated from the building -16 exterior wall up to 10 ft.</p> <p><b>Location: Building 12</b></p>	<p>Egress courts less than 3050 mm (10 ft) in width (as measured from Building-12 to Building-16) shall be provided with walls having a 1-hr fire resistance rated construction materials for a distance of 3050 mm (10 ft) above the floor of the court.</p>	Within 3 Months




F-12	Fire Rated Construction	<p><b>Building-12</b> has some portion &amp; stair supports compressor room are constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p>	<p>The building shall be type-I or II construction as per RSC Technical Guidelines (Standard) 3.5.2. Provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer.</p> <p>Submit the proposed drawing/design to RSC for review. Once reviewed, install passive fire protection as per reviewed design.</p>	Within 6 months
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F-13	Mean of Egress	<p>Landing doesn't provided from ETP lab area exit which leads to directly on stair &amp; cause of tripling hazard.</p> <p><b>Location: 1st floor (Building-12)</b></p>	<p>A landing shall be provided on both sides of doors used in the means of egress. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.</p>	Within 3 Months
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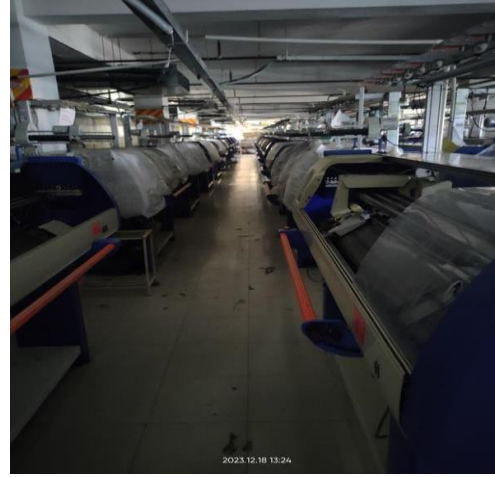
F-14	Mean of Egress	<p>Secondary exit does not provided from ETP Lab area (1st Floor, Travel distance exceeds 75 ft) , Dining (Mezzanine, Allowable occupant capacity exceeds) &amp; Prayer Area (Ground floor, Allowable occupant capacity exceeds).</p> <p><b>Location: Building-12</b></p>	<p>The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by 6.6.2, a single means of egress is permitted by 6.6.5 or where a greater number is required by 6.6.3. (RSC Technical Guidelines (Standard).</p> <p>For Dining &amp; Prayer Area, secondary exit not required if it meet Table 6.6.2 (RSC Technical Guidelines (Standard).</p>	Within 3 Months
F-15	Mean of Egress	<p>Headroom measured less than the 80 inch in Prayer room Exit at Ground floor.</p> <p><b>Location: Building-12</b></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.).</p>	Within 1 Month

F-16	Mean of Egress	<p>Common path of travel exceeds 8m on chemical store (1st Floor)</p> <p><b>Location: Building-12</b></p>	<p>Modify the egress arrangement &amp; common path of travel shall not exceeds 8m on chemical store.</p>	<p>Within 1 Month</p>
				
F-17	Means of Egress	<p>Occupant load sign &amp; updated evacuation map were found missing at the required locations on all floors.</p> <p><b>Location: Building-12</b></p>	<p>Provide occupant load sign &amp; evacuation plans at required locations. Fire evacuation maps shall be posted at the entrance to each exit stair.</p>	<p>Within 1 month</p>

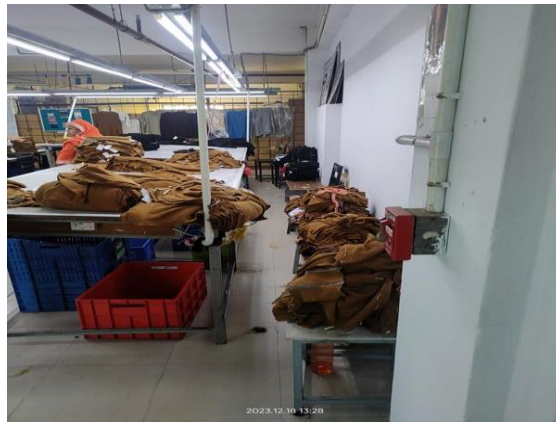
F-18	Means of Egress	<p>Provided handrail height has been found 29 inch.  <b>Location: Building-12</b></p>	<p>Handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread.</p> <p>Intermediate rails or pattern shall be in a such way, 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 3 month
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F-19	Means of Egress	<p>Stair width was found less than 1.5m (60 inches)  (Stair-01 &amp; 02 clearance width 54 inch, Stair supports compressor room is 29 inch).  <b>Location: Building -12</b></p>	<p>Stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies</p>	Within 3 months



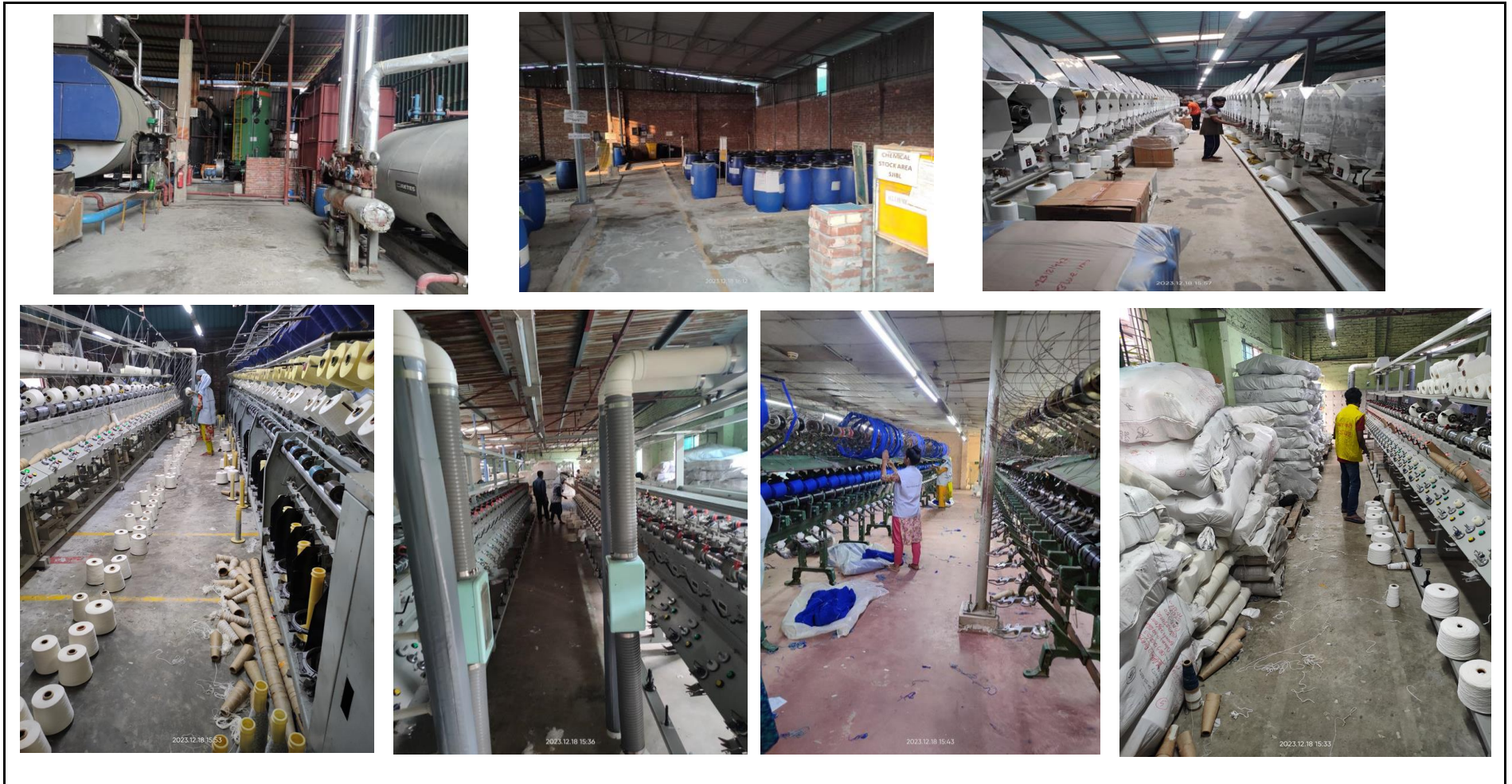
F-20	Means of egress	<p>Exit stairs serve more than 5 stories and do not have required re-entry provisions.</p> <p><b>Location: Building-12</b></p>	<p>Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC standard 6.8.3.1.</p>	Within 3 months
F-21	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p><b>Location: Building-12</b></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.</p>	Within 3 Month



F-22	Means of Egress	<p>Aisles mark were found missing on several locations throughout the building.</p> <p><b>Location: Building-12</b></p>	<p>Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.</p>	<p>Within 1 Month</p>
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F-23	Means of Egress	<p>Aisles mark were found missing on several locations throughout the building.</p> <p><b>Location: Building 13 to Building 24</b></p>	<p>Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.</p>	<p>Within 1 Month</p>
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F-24	Mean of Egress	<p>Common path of travel exceeds 75 ft. (Available 82 ft)</p> <p><b>Location: Building-14</b></p>	<p>Common path of travel shall not shall not exceed 23 m (75 ft). Modify the egress arrangement or</p> <p>Provide complete automatic sprinkler system.</p> <p>Common path of egress travel will extend up to 30 m (100 ft) if completely protected by Automatic Sprinkler system as per NFPA 13.</p>	Within 1 Month
F-25	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p><b>Location: Building 13 to Building 24</b></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.</p>	Within 3 Month

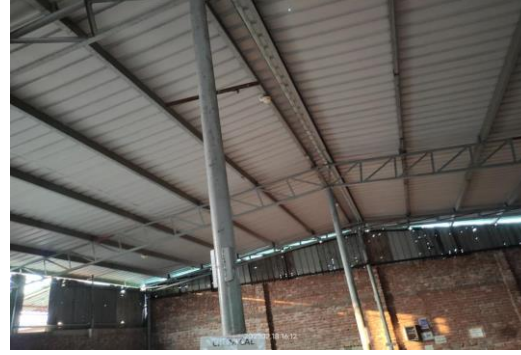
F-26	Fire Rated Construction	<p>Liquefied or compressed gas cylinders were located within the factory without adequate fire separation.</p> <p><b>Location: Building-20</b></p>	<p>The RSC Technical Guideline (Standard) V1, section 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building. However, if it is not feasible then conditionally those are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions.</p> <ol style="list-style-type: none"> <li>1. The storage building must be at least 3 meters away from any other buildings and boundaries.</li> <li>2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction.</li> <li>3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours.</li> <li>4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders.</li> <li>5. The building must be mechanically ventilated to control the accumulation of flammable vapors.</li> <li>6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB).</li> </ol> <p>Additional requirements from "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES" also shall meet during remediation.</p>	Within 3 Months
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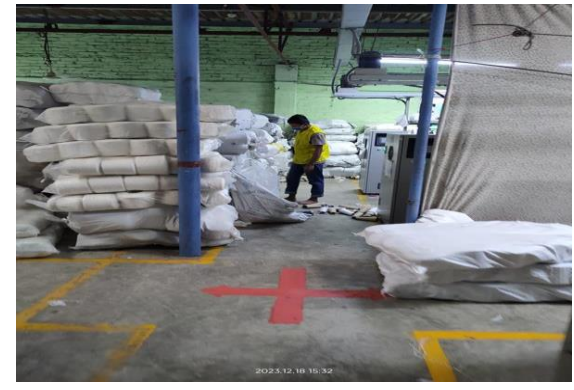
F-27	Fire Rated Construction	<p><b>Building-13, 14,15,16,17,19 &amp; 24</b> are interim buildings. The main structural element of the buildings are constructed by steel which is non-rated. Steel members were found in exposed condition without any fire protection.</p>	<p>The building shall be type-I or II construction as per RSC Technical Guidelines (Standard) 3.5.2. Provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer.</p> <p>Submit the proposed drawing/design to RSC for review. Once reviewed, install passive fire protection as per reviewed design.</p>	Within 3 Months
F-28	Fire Rated Construction	<p>The boiler room is not separated from combustible fuel storage(Solid fuel) by fire rated construction.</p> <p><b>Location: Building -23</b></p>	<p>Separate the boiler room by a minimum 1-hr fire-rated construction from solid fuel storage. Seal and/or protect all openings to maintain the required fire separations.</p>	Within 3 Months



F-29	Fire Rated Construction	<p>Chemical store on Building-18 is Interim construction &amp; not Type-1 building as per BNBC - 2006.</p> <p><b>Location: Building -18</b></p>	<p>The building shall be type-I as per BNBC 2006 Table 3.2.4. Provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer.</p> <p>Submit the proposed drawing/design to RSC for review. Once reviewed, install passive fire protection as per reviewed design.</p>	Within 6 Months
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F-30	Fire rated Construction	<p>Areas used for combustible storage open to the factory are not maintained or separated by fire rated construction.</p> <p><b>Location: Building 14,15, 19</b></p>	<p>Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: -</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.45m (8ft.) , maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</li> <li>- If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m<sup>2</sup> (1000 ft<sup>2</sup>).</li> <li>-In process storage shall be limited to 10 percent of the building area of the story in which they occur.</li> </ul>	Within 3 months
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F-31	Fire Alarm & Detection System (FADS)	<p>Fire Alarm Control Panel (FACP) is located on Building-15 and doesn't easily accessible during emergency. FACP location doesn't meet manufacturer recommendation.</p> <p><b>Location: Building-15</b></p>	<p>FACP shall install in a location which comply manufacturer recommendation &amp; recommended to located near the entrance. FACP shall be easily accessible during emergency &amp; annunciator may evacuate after annunciation.</p>	Within 3 Months
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F-32	Fire Alarm & Detection System (FADS)	<p>Automatic fire alarm &amp; detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.</p> <p style="text-align: center;"><b>For All Buildings</b></p>	<p>Design &amp; Installation of Fire Alarm &amp; Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification.</p> <p>After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection &amp; alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.</p>	<p>Design Review within 2 months and installation within 4 months.</p>
F-33	Fire Detection System ( ITM of FADS)	<p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72.</p> <p style="text-align: center;"><b>For All Buildings</b></p>	<p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.</p>	<p>Within 1 Month after installation.</p>
F-34	Fire Protection System(Standpipe & Automatic Sprinkler System)	<p>Fire Protection system installation requires detailed review to confirm compliance with NFPA 13,14, 20, 22,24 and RSC standards.</p> <p style="text-align: center;"><b>Location: Building-12</b></p>	<p>Design &amp; Installation Fire Protection system shall be in accordance with RSC standard. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.</p>	<p>Design Review within 2 months and installation within 4 months.</p>

F-35	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.  <b>Location: Building-12</b>	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.
F-36	Fire Protection System(ITM of Sprinkler & Standpipe)	Inspection, testing, and maintenance for the automatic fire sprinkler & Standpipe system are not in accordance with NFPA 13,14 and 25 or as per RSC standard.  <b>Location: Building-12</b>	Inspect, test and maintain the fire pump and standpipe system, and keep written records on-site, in accordance with NFPA 13,14 and 25 or as per RSC standard.	Within 1 Month after installation.