

# **INITIAL FIRE SAFETY INSPECTION REPORT**

## **CUTTING EDGE INDUSTRIES LTD. (EXTENSION)**

**RSC ID: 25761**

**1612, South Salna, Salna Bazar, Gazipur Sadar, Gazipur -1702**

**Other Factories: CUTTING EDGE INDUSTRIES LTD (9575) in this premises**



**Inspected By: Md. Anisuzzaman & Mahbub Alam Sami**

**Date: 19th September 2024**

# Fire Safety Inspection Report

## CUTTING EDGE INDUSTRIES LTD. (EXTENSION)

### Introduction:

**CUTTING EDGE INDUSTRIES LTD. (EXTENSION)**; complex was surveyed for fire safety on **19/09/2024** by The RSC Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

### Limitations

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

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

## General Factory Information

Factory Building name(s): There are four structure under this ID-25761 which are listed below:

1. Building-03: Office building, 3-Storeyed Steel Structure (Construction: Jan-2011 to Nov-2014 & Occupied: Dec-2014. Total area= 1760.6 SQM, Per floor area=586.89 SQM, Design approved by Gazipur City Corporation on date 12-09-2013, Interim Construction).
2. Building-04: Dining Building, 5-Storeyed RCC Structure with basement (Construction: March -2018 to June-2020 & Occupied: July-2020). Total area=4578 SQM, basement floor area=698 SQM & other Per Floor area=776 SQM, Design approved by Gazipur City Corporation on date 26-08-2013, Interim Construction).
3. Building-05: Link Bridge, 3- storied RCC building (Construction: June-2018 to Nov-2020 & Occupied: Dec -2020. Total area=378.4 SQM, Design approved by Gazipur City Corporation on date: 26-08-2013, Interim Construction).
4. Building-06: Security building , Single storied RCC structure. (Construction: Nov-2013 to Dec-2013 & Occupied: N/A. Total area=19.5 SQM, Design approved by Gazipur City Corporation on date: 12-09-2013, Interim Construction).

**Factory Address: 1612, South Salna, Salna Bazar, Gazipur Sadar, Gazipur -1702.**

### Points of contact:

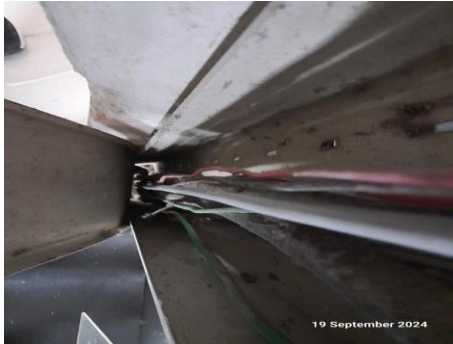
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|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name: Md. Rafiqul Islam<br>Designation: Manager- Project Management<br>Contact No: +8801706882015<br>Email: rafiqul.islam@mbm.group | 2. Name: Engr. Md. Julkar Nayan Khan<br>Designation: DGM- Utility & Maintenance<br>Contact No: +8801786422000<br>Email: julkar.khan@mbm.group |
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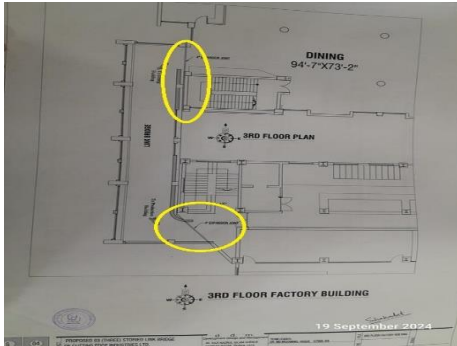
## Findings & Recommendations :

Table 1-2 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-1: Finding & recommendation for 5-Storeyed dining building(building -4)**

| Sl No.                                                                                                                                                                                                                                                           | Category                | Findings                                                                                                                                          | Required Action                                                                                                                                                                                                                                                                                                                            | Remediation Time Frame |
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| F-1                                                                                                                                                                                                                                                              | Fire rated Construction | <p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.</p> <p>Location: Through electrical cable riser</p> | <p>Penetrations of fire resistive rated assemblies shall be protected with a listed through-penetration fire stop system tested in accordance with ASTM E814 &amp; As per RSC Technical Guideline standard V1-4.7</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> |                         |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                            |                        |

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| F-2                                                                                                                                                                                                                                                          | Fire rated Construction | <p>Building expansion joint opening is not sealed by fire rated construction /sealant/material.</p> <p>Location: In between building-4(dining building) &amp; building-5(link bridge)</p> | <p>Seal the building expansion joint opening by 3 hr. listed fire rated sealant/material to maintain required floor to floor separation. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet.</p>                                                                                                                                                                  | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
| F-3                                                                                                                                                                                                                                                          | Means of Egress         | <p>Store room and Basement Floor directly open into exit stair enclosure.</p> <p>Location: Ground floor and Basement of Dining building.</p>                                              | <p>Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction as per RSC Technical Guideline (Standard) V1-6.14.3 .</p> <p>Provide a 1.5-hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storage room/ basement floor side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p> | Within 3 months |



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| F-4 | Mean of Egress | <p>Width of exit stairs are less than 1.5 m (60 in.) for industrial occupancies &amp; less than 2m for assembly occupancies.</p> <p>Location: 5-Storied Dining Building</p> | <p>In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m (79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used accordance with RSC standard 6.5.6.2.1</p> | Within 3 months |
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| F-5 | Mean of Egress | <p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction due to non-functional fire doors.</p> <p>Location: 5-Storied Dining Building</p> | <p>The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 90 minutes opening protection.</p> <p>The clearance under the bottom of a fire door shall be a maximum of 19mm.</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> <p>Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guideline (Standard) V1 6.8.3.1.</p> | Within 3 months |
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| F-6 | Means of Egress | <p>The exits are not remotely located from each other such that a single fire event could compromise both exits.</p> <p>Location: 5-Storied Dining Building.</p> | <p>Modify exit arrangement to meet RSC Technical guideline standard V1-6.6.6.</p> <p>or</p> <p>Provide additional exit(s) to meet RSC Technical guideline standard V1- 6.6.6.</p> | Within 3 months |
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| F-7                                                                                  | Means of Egress | Updated Occupant load sign is not posted at the exit stair at all level.<br><br>Location: 5-Storeyed Dining Building.                              | Updated Occupant load sign shall be posted at the entrance to exit stair at all level.                                                                                                                                                                                                                                                                                           | Within 1 month |
| F-8                                                                                  | Means of Egress | Updated Building did not have stair designation signs & exit designation signs at required locations.<br><br>Location: 5-Storeyed Dining Building. | Provide Updated stair designation sign & exit 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.                                                                                                                            | Within 1 month |
| F-9                                                                                  | Means of egress | Headroom measured less than the 80 inch.<br><br>Location: Basement Entry, 5-Storeyed Dining Building.                                              | 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.). | Within 1 month |
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| F-10 | Mean of Egress       | Updated fire evacuation plan & maps is not posted at the entrance of all exit stair.<br>Location: 5-Storied Dining Building.                                                 | Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3                                                                                                                                                                        | Within 1 month  |
| F-11 | Egress lighting      | Directional signs are not provided where direction of the path of travel to an exit has changed.<br>Location: 5-Storied Dining 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.                                                                                                                                                 | Within 1 month  |
| F-12 | Egress lighting      | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br>Location: 5-Storied Dining 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. | Within 3 months |
| F-13 | ITM(Egress lighting) | 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 1 month  |

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| F-14                                                                                | Fire Alarm & Detection System (FADS)        | Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.<br>Location: Building-4 & building-5 | <p>Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any.</p> <p>After installation 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> | Design Review within 2 months and modification within 3 months (If require). |
|  |                                             |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| F-15                                                                                | Fire alarm & 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 (Table-14.3.1) or as per RSC standard.                                                                                                                                                                                                                                                                                   | Within 1 month after modification(If require).                               |

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| F-16                                                                                                                                                                                                                                                            | Fire Protection System(Standpipe) | Standpipe system installation requires detailed review to confirm compliance with NFPA- 14 , 20 ,22 & 24 or as per RSC standard.<br>Location: Building-4 & building-5 | <p>Submit the standpipe system drawing to RSC for review.</p> <p>Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA- 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 Review within 1 month and modification within 3 months (If require). |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                                   |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                             |
| F-17                                                                                                                                                                                                                                                            | ITM of Protection System(SUPS)    | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.                                               | Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.                                                                                                                                                                                                                                                                | Within 1 month after modification(If require).                              |

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| F-18 | ITM of Protection System(SUPS)              | Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.   | Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.     | Within 1 month after modification(If require). |
| F-19 | Fire Protection System(ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard. | Within 3 months                                |

**Table-2: Finding & recommendation for 3-Storied office building.**

| SI No.                                                                                                                                                                               | Category                | Findings                                                                                                                                                                        | Required Action                                                                                                                                                                                                                                                                                                                            | Remediation Time Frame |
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| F-20                                                                                                                                                                                 | Fire rated Construction | <p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.</p> <p>Location: Through electrical cable riser of 3-storied office building.</p> | <p>Penetrations of fire resistive rated assemblies shall be protected with a listed through-penetration fire stop system tested in accordance with ASTM E814 &amp; As per RSC Technical Guideline standard V1-4.7</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>   </div> |                         |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                            |                        |

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| F-21                                                                                                                                                                                                                                                                                                                                                | Fire rated construction | <p>The main structural elements of factory buildings (G and/ or H2) are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. As per RSC Technical Guidelines (Standard) V1 1.5.5 this building is defined as an interim building so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0</p> <p>Location: 3-storied office building.</p> | <p>For interim construction, the building shall be Type 1 or Type 2 construction as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 &amp; Section 4.4 and Table 4.4.1 of the RSC Technical Guidelines (Standard) V1. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.</p> <p>Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the passive fire protection system.</p> | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">    </div> |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| F-22                                                                                                                                                                                                                                                                                                                                                | Mean of Egress          | <p>Width of exit stairs are less than 1.5 m (60 in.).</p> <p>Location: Stair-1 (N-E) of Office Building</p>                                                                                                                                                                                                                                                                                                                                                                                          | <p>Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Within 3 months |



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| F-23 | Means of Egress | Updated Occupant load sign is not posted at the exit stair at all level.<br><br>Location: 3-Storied Office Building.                              | Updated Occupant load sign shall be posted at the entrance to exit stair at all level.                                                                                                                                                                | Within 1 month |
| F-24 | Means of Egress | Updated Building did not have stair designation signs & exit designation signs at required locations.<br><br>Location: 3-Storied Office Building. | Provide Updated stair designation sign & exit 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. | Within 1 month |
| F-25 | Mean of Egress  | Updated fire evacuation plan & maps is not posted at the entrance of all exit stair.<br><br>Location: 3-Storied Office Building.                  | Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3                                                                                                                 | Within 1 month |

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| F-26 | Egress lighting                      | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Location: 3-Storied Office 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.                                                                                                                 | Within 3 months                                                             |
| F-27 | ITM(Egress lighting)                 | 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 1 month                                                              |
| F-28 | Fire Alarm & Detection System (FADS) | Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.<br><br>Location: 3-Storied Office Building, security building-6 | Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any.<br><br>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation.<br><br>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Design Review within 1 month and modification within 3 months (If require). |



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| F-29 | Fire alarm & 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 (Table-14.3.1) or as per RSC standard. | Within 1 month after modification(If require). |
| F-30 | Fire Protection System(ITM of Extinguisher) | Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. | Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.              | Within 3 months                                |