

INITIAL FIRE SAFETY INSPECTION REPORT

Uni Gears LTD (Extension)

RSC ID: 24848

Badshamiah School Road, Khailkur, Board Bazar, Gazipur, Bangladesh

Geographical Coordinates of factory building: 23.940278, 90.386239

Other Factories: Uni Gears Ltd-ID:11356



Inspected By: Dilip Kumar Mondal

Date: 9 January 2024

Fire Safety Inspection Report

Introduction:

Uni Gears LTD (Extension) complex was surveyed for fire safety on **09/01/2024** 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): Factory Building name(s) in this ID:24848

1. Building 3/(G+7) (1st phase: March, 2013 to May 2013; 2nd Phase: Feb 2019 to Dec 2022),
Design Approved by Tongi Pourashava 9 May 2012,
Construction Period Interim.

Total area of the building-3: 71290 sm.(per floor: 8911 sm. average)

2. Single Storied-Chemical Shed.
3. Single Storied-RMS Room (Shed).
4. Single Storied-Waste Material Shed.

Additional Information: Uni Gears Ltd-ID:11356

Seven Storied-Factory Building-01

Seven Storied-Factory Building-02

Single Storied-Security Office

Findings & Recommendations :

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

Table-1:

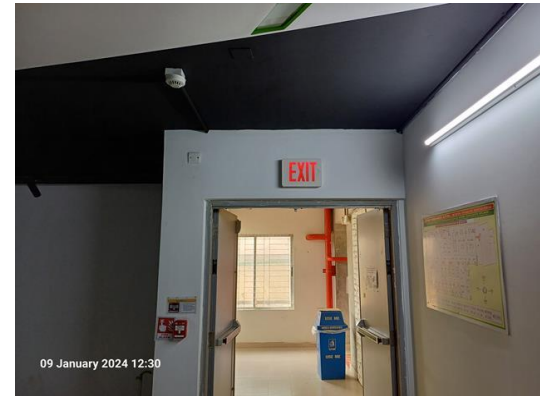
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit stairwells on each floor are separated from work areas and other spaces by fire rated construction but smoke seals are missing for several fire doors at different locations. Location: Main Building-3.	Provide smoke seals to each fire door (where it is damaged) and ensure that fire doors are self-closing, positive latching and are provided with fire exit (panic) hardware serving production floors.	Within 3 Months
				
F-2	Fire Rated Construction	Penetration found inadequate through floor/ceiling assembly (floor expansion joints).	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling: minimum 3 hr.) assemblies by third-party certified fire rated materials to maintain the fire resistance rating. or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 Months



F-3	Egress Lighting	Illuminated directional signs are not provided where direction of the path of travel to an exit has changed. Location: Several floor.	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
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F-4	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-5	Fire Alarm & Detection System (FADS)	An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard) for all buildings in the factory premises.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design Review within 2 months and installation within 4 months.



F-6	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	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. (After Installation)	Within 1 month after installation.
F-7	Fire Protection System (Standpipe)	The building with an occupiable floor greater than 10 m (33 ft) above the finished grade is protected with an standpipe system. Fire pump, water supply & standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22, 25 and RSC standards. Location: Utility Building	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Class-I standpipe system is acceptable with automatic sprinkler system.	Design Review within 2 months and installation within 4 months.



F-8	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.	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-9	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month after installation.

F-10	Inspection Testing and Maintenance of Portable Fire Extinguisher.	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 1 Month
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