

INITIAL FIRE SAFETY INSPECTION REPORT

Azim & Son (Pvt) Ltd Unit 2 (Extension)

RSC ID: 24322

368, Gacha Road, Gacha, Ja, BB Gazipur



Inspected By: Pantha Pallob Das

Date: 7 February 2022

Fire Safety Inspection Report

Azim & Son (Pvt) Ltd Unit 2 (Extension)

Introduction:

Azim & Son (Pvt) Ltd Unit 2 (Extension) was surveyed for fire safety on 7 February 2022 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

Building name(s): The building names under this ID are below:

1. Building no: 05, Factory building (7 storied RCC)
2. Building no: 02, Production Building (2 storied steel structure)
3. Building no: 06, Boiler and Compressor Building (2 storied RCC).

There are 3 more major buildings (Building-1,3 &4) in the premises under different IDs.

Factory Address: 368, Gacha Road, Gacha, Ja,BB Gazipur

Points of contact:

1. Name: Md. Azizur Rahman Mallik
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2. Name: Haurun Or Rasid
Designation: Head of HR and Compliance
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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 review.

Table No.	Building	Total Finding	Finding Range	Remarks
Table 1	Building-5	11	F-1 to F-11	
Table 2	Building-2	9	F-12 to F-20	

Table-1: Building no: 05, Factory Building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor due to non-functionality of fire rated doors. Building-5.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction. 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. 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.	Within 3 months



F-2	Fire Rated Construction	The exit discharge paths are not properly fire separated as required due to unprotected openings. Building-5.	Seal all the unprotected openings by minimum 2-hr fire rated materials. An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 2-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 month
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F-3	Fire Rated Construction	The parapet of the building is only 21 inch which is a violation of ACCORD Standard-6.12.2.4 Building-5.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.).	Within 3 months
F-4	Means of Egress	Glass type exit doors are provided at exits for PP Section. Building-5.	Replace all non-compliant doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month



F-5

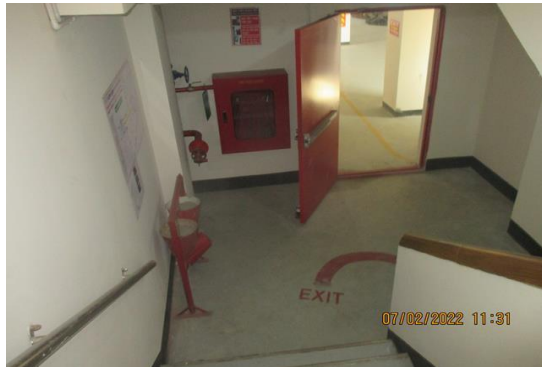
Means of Egress

Building did not have stair designation signs and occupant load signs at required locations on all floors.

Building-5.

Provide stair designation signs and occupant load signs at required locations.

Within 1 Month



F-6	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Building 5	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-7	Fire Protection System(Standpipe)	Standpipe installation requires detailed review to confirm compliance with NFPA 14, 20 and ACCORD standards. Location: Building 5	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 5 months.
F-8	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per Accord standard	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard	Within 1 Month after installation.

F-9	Fire Protection System(ITM of Fire Pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 Month after installation.
F-10	Fire Alarm & Detection System (FADS)	Fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Building-5.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Once reviewed, install or modify the fire detection and alarm system (where required) throughout the building in accordance with Accord standard and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design within 2 months, Install within 5 months.
F-11	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 Accord 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 Accord standard.	Within 1 Month after installation.

Table-2: Building No: 02

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-12	Fire Rated Construction	Rooms used for storage of combustible materials are not fire separated from the adjacent and above floor production area. Location: Building 2, ground floor	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour fire rated construction.	Within 3 months
				
F-13	Fire Rated Construction	The main structural elements of the building-2 are constructed by steel which is non-rated and were found in exposed condition without any fire protection.	The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.3.1, 3.2.4 & 3.1.9.	Within 6 months



F-14	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Located: 1st floor of building-2.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m.	Within 3 months
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F-15	Fire Rated Construction	The exit stairs are not separated from work areas on each floor by fire-rated construction. Due to non-functionality of fire rated doors and non-rated structural elements. Location: Building-2.	The exit stair enclosure shall be provided with a minimum 1- hr. fire resistance rating. Provide 1- hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction. 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. 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.	Within 3 months
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F-16	Fire Rated Construction	The exit discharge paths are not properly fire separated as required due to unprotected openings.	Seal all the unprotected openings by minimum 1-hr fire rated materials. An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured 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.	Within 3 months
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F-17	Means of Egress	Sliding type exit doors are provided exits at packing section.	Replace all non-compliant exit doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 Month
				
F-18	Means of Egress	Glass sliding doors were with non-compliant locking features along egress routes. All doors and gates were open and unlocked during inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and ACCORD standard 6.8.2.	Immediately



F-19	Fire Alarm & Detection System (FADS)	Fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Building-2	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Once reviewed, install or modify the fire detection and alarm system (where required) throughout the building in accordance with Accord standard and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design within 2 months, Install within 5 months.
F-20	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 Accord standard	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with table-14.3.1 of NFPA 72 or as per Accord standard.	Within 1 Month after installation.