

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Asrotex (Extension)

RSC ID: 24578

Factory Address: Dharmaganj, Enayetnagar, Fatullah, Narayanganj.

Other Factories: Asrotex (ID: 9717)



Inspected By: Mohammad Anayet Hossain, Mahbub Alam & Md. Tanvir Rahman

Date: 08th October 2023

Fire Safety Inspection Report

Introduction:

Asrotex (Extension) complex was surveyed for fire safety on **08/10/2023** 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): Building 02 (07 Storied RCC Factory Building)

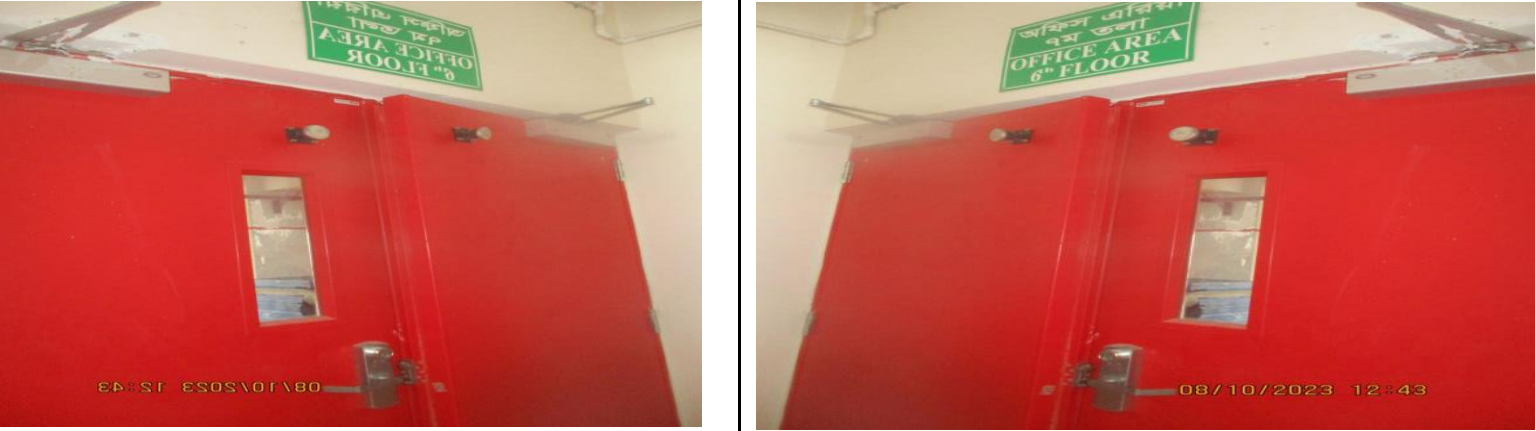
Factory Address: Dharmaganj, Enayetnagar, Fatullah, Narayanganj.

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-01	Fire Rated Constructions	Unsealed floor to floor penetration found inside the floors. Electrical riser has found inside the floors without any fire separation.	Seal all the penetration through the floors with proper sealing materials as per RSC Technical Guidelines Standard's reference number 4.7 and make appropriate fire separation of Electrical Cable riser.	Within 03 months
				


F-02	Fire Rated Constructions	Exit Doors are provided with 02 hours fire rated doors however fire door accessories were not working properly.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation (10" wall). Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. 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 6.8.3.1.	Within 03 months
				
F-03	Fire Rated Constructions	The substation room is not separated by fire rated construction due to openings, non-rated doors, and penetrations on ground floor.	Separate the substation room by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building 3m (10 ft.) spatial distance shall be maintained around the substation. Ensure proper ventilation for the generator room. For high-rise building follow D.15 of BNBC-2006.	Within 03 months





F-04	Fire Rated Constructions	Areas used for combustible storage are not separated by fire-rated construction at several floors.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated 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"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 03 months
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F-05	Means of Egress	Elevator shafts are directly open into the inside of exit stair enclosure.	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. 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. So, ensure the lift shaft is 2-hr fire rated including opening protection with similar rating.	Within 03 months
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F-06	Means of Egress	Storage room discharges directly into exit stair enclosures at Ground Floor (Stair-2).	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5-hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guideline/ Standard V.1 (6.14.3)	Within 03 months	
					

F-07	Means of Egress	Fire evacuation map is not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 01 month
F-08	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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 01 month
				
F-09	Emergency 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 01 month
F-10	Fire Alarm & Detection System (FADS)	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA-72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design within 02 months, installation/modification within 03 months



F-11	Fire Detection ITM	Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-12	Fire Protection System	Fire Fighting System (Standpipe & Sprinkler System) installed and requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 & RSC Technical Guidelines (Standard)	The high-rise building has an occupied floor greater than 23 meter (75 feet) where required automatic sprinkler protection is installed through the factory. Sprinkler system is mandatory for the building based on height and type of construction but the Sprinkler System installed for the building along with standpipe system. However, both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard).	Design within 02 months, installation/modification within 04 months



F-13	Standpipe ITM	Inspection, testing and maintenance of the Standpipe system is not found in accordance with NFPA 14.	Inspect, Test & Maintain Standpipe System and keep written record as per NFPA 14 & NFPA 25.	Within 02 months
F-14	Sprinkler ITM	Inspection, testing and maintenance of the Sprinkler system is not found in accordance with NFPA 13.	Inspect, Test & Maintain Standpipe & Sprinkler System and keep written record as per NFPA 13 & NFPA 25.	Within 02 months
F-15	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not found in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 and RSC standards.	Within 02 months

F-16	Fire Extinguishers ITM	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 and RSC standards.	Within 02 months
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