

INITIAL FIRE SAFETY INSPECTION REPORT

THAT'S IT KNIT (EXTENSION)

RSC ID: 25501

23.989463, 90.258296

59 South Panishile, Zirani, Kashimpur, Gazipur

Other Factory : THAT'S IT KNIT [ID-9531]



Inspected By: Md. Sadid Rahman

Date: 27-Feb-2024

Fire Safety Inspection Report

THAT'S IT KNIT LTD(EXTENSION)

Introduction:

THAT'S IT KNIT LTD(EXTENSION) complex was surveyed for fire safety on **27-Feb-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):


S/N	Building Name	Construction Period	Construction Type
01	7-Storied Utility Building (RCC)	Jan-2022 to Mar-2023, Occupy- May-2023	New Construction
02	Boiler Room (1 Storied RCC Building)	Feb-2022 to May-2022, Occupy- Jan-2023	New Construction
03	RMS , Store & Guard Room	Jun-2023 to Aug-2023. Occupy- Oct-2023	New Construction



Factory Address: 59 South Panishile, Zirani, 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 review.

Table-1:



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures. Location: Stair-1 and 2	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet. Or Protected using concrete, grout or mortar installed the full thickness of the wall to maintain the fire-resistance rating as per 4.7.1 of RSC Technical Guidelines Standard.	Within 3 months
				

F-2	Fire Rated Construction	<p>Fire door Hardware (door leaf) in various location have been found not installed properly. Gap beneath the door has been found more than 19 mm. Locations: Stair 2 (1st-6th floors), Finished goods carton store (1st floor), Generator room.</p> <p>Location: 7-Storeyed Utility Building (RCC)</p>	<p>Factory shall ensure that the maintenance work shall be done for the door hardware and accessories on a regular basis as per NFPA 80 [follow 4.8.4.1 for clearance under the bottom mof the door] and manufacturer's published guideline. Repair/ replace the hardware and accessories which are not functional or under unauthorized maintenance. Doors shall not be tied up with rope or blocked by obstacles. Keep the fire rated doors close all time, if for functional reason require to keep open then interfacing facility with functional FACP shall be ensured.</p>	Within 1 month
<div style="display: flex; justify-content: space-around; align-items: center;">   </div>				

F-3	Fire Rated Construction	<p>Penetrations and opening through floor/ceiling assemblies are found unsealed by the electrical riser and pvc pipe.</p> <p>Location(s): Ground, 2nd and 3rd Floor.</p>	<p>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. Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.</p>	Within 3 months
				

F-4	Fire Rated Construction	<p>Room for combustible storage and Utility discharges directly into the exit stair enclosure [Stair- 1 and 2].</p> <p>Location(s): Ground floor, 5th Floor and 6th Floor.</p>	<p>Openings from exit enclosure to storage room, shall be provided with a vestibule with fire rated construction and openings.</p> <p>Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the store 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-5	Fire Rated Construction	<p>Elevator shafts are directly open into the production floor without proper fire separation which is a violation of RSC Standard-6.14.3.</p> <p>Location: 7-Storeyed Utility Building [Stair-2]</p>	<p>Rearrange the facility to provide separate enclosure for lifts. If not possible anyway provide a minimum 2-hr fire-rated elevator shaft with listed fire rated lift landing door to separate from each floor level.</p>	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				



F-6	Fire Rated Construction	Exit stair enclosures are not free from unusual unsealed penetrations and openings (Electric cable raceway). Location: 7-Storied Utility Building [Ground Floor]	Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure. Remove cable raceway/busbar riser/ plumbing pipes and electrical pipes from the exit stair enclosures. Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 1 months
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F-7	Fire Rated Construction	<p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction.</p> <p>Location: 7-Storey Utility Building [Ground Floor-ETP]</p>	<p>Provide minimum 1-hr rated doors for buildings with 3 or fewer stories 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. 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.</p> <p>Factory shall ensure the integrity of the fire rated door through actual datasheet and 3rd party certificate.</p>	Within 1 months
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F-8	Means of Egress	Handrails are not provided on both sides of the exit stair. Location: 7-Storeyed Utility Building [Basement]	Provide handrails on both sides of the exit stair. New 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 1month
				
F-9	Means of Egress	Exit stairs width reduced to 48 inch on Stair-2 Location: 7-Storeyed Utility Building [Ground Floor]	Maintain the clear width of the stair 60 inch as per 6.5.6.2 of RSC Technical Guidelines Standard.	Within 1month
				
F-10	Means of Egress	Handrails are not provided on both sides of the exit stair. Location: 7-Storeyed Utility Building [Basement]	Provide handrails on both sides of the exit stair. New 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 1month


				
F-11	Means of Egress	<p>Falling hazard has been found on ground floor.</p> <p>Location: 7-Storeyed Utility Building [Ground Floor]</p>	Provide guards with a minimum height of 1067mm (42 inch.).	Within 1month
				
F-12	Means of Egress	<p>Exit stairs serve more than 5 stories and do not have required re-entry provisions.</p> <p>Location: 7-Storeyed Utility Building.</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.	Within 1month




F-13	Emergency Lighting	<p>Exit sign and Directional Sign are not provided at and towards exit at several floors.</p> <p>Location: All floors of the building</p>	<p>Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p>	Within 1 month
				

F-14	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: 7-Story Utility 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 1 month
				
F-15	Inspection, testing, and maintenance	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-16	Fire Alarm & Detection System (FADS)	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified.	<p>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.</p> <p>Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.</p>	Design within 1 months, installation/modificati on within 3 months
<div style="display: flex; justify-content: space-around; align-items: center;">   </div>				
F-17	Inspection, testing, and maintenance	Inspection, testing and maintenance of the addressable fire alarm and detection system is not in accordance with NFPA 72.	Inspect, test and maintain the addressable fire alarm and detection system and keep written records on- site, in accordance with NFPA 72 and RSC standards.	Within 1 month

F-18	Fire Protection System	The highest occupied floor of existing building is more than 10 m (33 ft.) above grade where standpipe system is mandatory and the factory has installed a class III standpipe 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. Once reviewed, install or modify the sprinkler, standpipe system and pump (where required) throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 14 and 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design Review within 2 months and installation within 4 months
				
F-19	Inspection, testing, and maintenance	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and RSC standards.	Within 1 month

F-20	Fire Protection System	The highest occupied floor of existing building is more than 23 m above grade where sprinkler system is mandatory and sprinkler system has been installed in the building which is required to be reviewed and verified.	<p>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- 13.</p> <p>Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.</p>	Design within 1 months, installation/modification within 3 months
				
F-21	Inspection, testing, and maintenance	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system and keep written records on-site, in accordance with NFPA 25 and RSC standards.	Within 1 month
F-22	Inspection, testing, and maintenance	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	1 Month after installation.
F-23	Inspection, testing, and maintenance	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard)	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guidelines Standard and keep written records on-site.	1 Month after installation.

F-24	Inspection, testing, and maintenance	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 1 month
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