

INITIAL FIRE SAFETY INSPECTION REPORT

Nippon Garment Industries Ltd (Extension)

RSC ID: 25889

Factory Address: Auchpara Tongi Gazipur 1711

[23.916107, 90.393793](#)

Other Factories: Nippon Garment Industries Ltd (RSC ID: 12009)



Inspected By: Hamed Mustakim

Date: 27-October-2024

Fire Safety Inspection Report

Factory Name: Nippon Garment Industries Ltd (Extension)

Introduction:

"Nippon Garment Industries Ltd (Extension)" complex was surveyed for fire safety on **27/10/2024** 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 one structure in the factory premises-

SI	Name	Construction year	Type
01	Warehouse-1	Construction year : 04-Jan-2020 to 10-Aug-2023 Occupied year : 01-Sep-2023 Approval date: 17-Aug-2012	Interim Construction
02	Security & Wastage Shed	Construction year : Mar'2020 to Apr'2020 Occupied year : May'2020 Approval date: 17-Aug-2012	Interim Construction
03	RMS Room	Construction year : Mar'2020 to Apr'2020 Occupied year : May'2020 Approval date:	Interim Construction
04	Parking Shed	Construction year : Jun'2019 to Jul'2019 Occupied year : Aug'2019 Approval date:	Interim Construction

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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	Dining area(E3) is not separated from storage area by fire-rated construction. Location: 1st floor at Warehouse-1	Separate the dining(E3) from other Storage(H2) by 3-hr fire rated construction having two direct access to exit stair/outside of the building. Seal and/or protected all openings maintain the required fire separations.	Within 2 months
				

F-2	Fire Rated Construction	The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Warehouse-1	For interm construction, the building shall be Group 1 or Group 2 construction as required in BNBC 2020 Part 3 Table 3.2.4. So, provide required rating for the structural elements of the building following BNBC 2020-Table 3.2.4, 3.1.7 and 3.3.1 Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the structural fire protection system.	Within 6 months
 				

F-3	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction from Boiler room, Office room and Parking shed. Location: Ground and 1st floor at Warehouse-1, Parking shed	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 0.75 hr. fire rated fire rated construction.	Within 2 months
				

F-4	Means of egress	The exterior exit stair is not separated from the building by fire rated construction. Location: Warehouse-1	Exterior exit stairs shall be separated by minimum 1-hr fire-rated construction and The rating of the exterior wall shall extend 3.05 m (10 ft.) beyond the ends of the stair structure. Provide minimum 1-hr fire rated separation in exit enclosures with minimum 1-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels with similar rating of fire door. 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. Fire doors assemblies shall conform to NFPA 252, BS 476 Part 22, EN 1634-1, GB 12955-2008, or IS 3614 Part II.	Within 3 months
				

F-5	Means of Egress	Stair-1(SW-54inch) and Stair-2(SE-45inch) width inadequate less than 60inch. Location: Warehouse-1	In new and interim construction, constructed stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 2 Months
F-6	Means of Egress	The Exit stair-2(South East side) did not discharge directly to the outside of the building. Location: Warehouse-1	Provide 2-hr fire-rated exit passageway leading directly outside. Or, Provide sprinkler protection for discharge floor in accordance with NFPA 13 and RSC standard 6.17.3.	Within 2 Months
				
F-7	Means of Egress	Fire evacuation maps was not updated. Location: Warehouse-1	Fire evacuation maps shall be posted at the entrance to each exit stair matching with onsite.	Within 1 Month
F-8	Means of Egress	Building did not have stair designation, floor designation and occupant load signs at the required locations on all floors. Location: Warehouse-1	Provide stair designation, floor designation, & occupant load sign at the required locations.	Within 1 month
F-9	Means of Egress	The exit discharge path was not separated from the building interior due to unprotected openings from Warehouse-1 [due to Boiler and Storage] and Main building(RSC ID: 12009) [due to window opening]. Location: South side of Warehouse-1	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. with minimum 2-hr fire rated materials. Seal and/or protected all openings to maintain the required fire separations. Provide vestibules to separate storage areas and Boiler room.	Within 3 months



F-10	Means of Egress	New Finding (On 1st FUI): Uneven path of travel and blockage in exit discharge path due to construction purpose.	Remove unnecessary items and level exit path to the public way. Means of egress shall be maintained continuously free and clear of all obstructions	Within 2 months
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F-11	Means of Egress	Exit capacity is not adequate for the occupant load on the 1st floor of the warehouse-1. The 1st floor has 359 occupants [Dining Sitting arrangement- 350person] and the exit capacity [Exit width of Stair-1: 54inch and Stair-2: 45inch] is 314 occupants.	Reduce occupant load or sitting arrangement to not more than available exit capacity Or Provide additional exits	Within 1 month
F-12	Fire Alarm & Detection system	Automatic fire alarm and detection system is being installed which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 months and installation/modification within 4 months
				
F-13	Fire Alarm & Detection system (ITM of FADS)	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 Table-14.3.1 of NFPA 72.	Within 1 month (after installation)

F-14	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: All buildings.	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	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on- site.	Within 1 month
F-16	ITM of Fire Extinguishers	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