

INITIAL FIRE SAFETY INSPECTION REPORT

Nasa Hitech Style Limited

RSC ID: 24413

Address: Madhokhola. Sreepur, Gazipur.

Google Coordinate: 24.176313, 90.437430

Other Factories: None



Inspected By: Md. Anisuzzaman & Yusuf Ahmed

Date: 22 May 2022

Fire Safety Inspection Report

Nasa Hitech Style Limited

Introduction:

Nasa Hitech Style Limited; complex was surveyed for fire safety on **22-May-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.

Findings & Recommendations :

Table 1- 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 approval.

Table-1: Findings & Recommendations

Sly No.	Category		Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected opening & penetration.	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-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. 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	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical riser ,Expansion joint of south side office & north sided facilities building side and sewage line .	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 Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
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F-3	Fire rated construction.	Areas used for combustible materials are open to the surrounding occupancy. Location: Ground floor fabric store & first floor of production.	Provide dedicated storage rooms separated by minimum 1 hr. fire rated construction. OR Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater	Within 3 months
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F-4	Fire Rated Construction	Transformer, Generator ,boiler & compressor rooms are not separated from each other due to unprotected opening & penetrations. Location : Utility building.	Transformer, Generator Boiler & Compressor room shall be separated from each other by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum 1.5-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
				
F-5	Fire Rated Construction	Elevator shaft (Vertical opening) is open into production floor without proper fire separation.	Ensure elevator minimum 2.0-hr fire rating for the doors of elevator shafts otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.	Within 6 months



F-6	Fire Rated Construction	Unsealed opening from first floor located at exit enclosure. Location: North-West side of exit.	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 3 months
				

F-7	Fire Rated Construction	The main structural elements of main building are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. As per RSC Technical Guidelines (Standard) 1.5.4 this building is defined as an interim building so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0.	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 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
F-8	Means of Egress	Electrical panel boards (DB) are located on the Exit stair . Location: First floor of the office building side.	Remove electrical panel boards from exit stairs. Or Relocate the electrical panel boards to a suitable location.	Within 1 month
				

F-9	Means of Egress	Updated Fire evacuation maps is not posted at the entrance of all exit stairs.	Updated Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-10	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations.	Provide stair designation sign & exit designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
F-11	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Production building	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 months
F-12	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance as per standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance as per standard. Keep written records on-site.	Within 3 months

F-13	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 4 months (if required).
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F-14	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 standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per standard.	Within 1 Month (after installation).
F-15	Fire Protection System (ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per standard.	Within 3 months