

INITIAL FIRE SAFETY INSPECTION REPORT

SM Sourcing

RSC ID: 24719

Baimail, Konabari, Gazipur

Other Factories: None



Inspected By: Pantha Pallob Das & Md. Jahidul Kabir

Date: 23 July 2023

Fire Safety Inspection Report

Introduction:

SM Sourcing was surveyed for fire safety on 23/07/2023 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

There is total 13 number of structures in the premises and all those structures are under this ID. The building details are as follows:

Shed-1: Single storied steel structure (Area-17500 sft. Construction started in February 2006 and finished in August 2006.

Shed-2: Single storied steel structure (Area-5000 sft. Construction started in July 2011 and finished in November 2011.

Shed-3: Single storied steel structure (Area-7500 sft. Construction started in February 2011 and finished in June 2011).

Shed-4: Single storied steel structure (Area-3000 sft. Construction started in February 2012 and finished in May 2012.Using as storeroom)

Shed-5: Single storied steel structure (Area-300 sft. Construction started in February 2006 and finished in April 2006. Using for generator room)

Shed-6: 2 Storied steel structure. The ground floor of the shed is directly connected with Shed-3. (Area-1000 sft/floor, Construction started in February 2011 and finished in July 2006. The ground floor is being used for cutting and the 1st floor is vacant, factory management confirmed that the 1st floor will remain vacant forever.

Shed-7: Single storied steel structure using as wastage store (500 Sft).

Shed-8: Single storied steel structure using as security guard house (150 sft)

Shed-9: Single storied steel structure using as canteen shed. (1000 sft).

Shed 10: Single storied steel structure using as doctor's room (350 sft)

Shed 11: Single storied steel structure used as Dining Shed (200 sft). Currently the shed is not in use.

Shed 12: Single storied steel structure using as Utility Shed (1407 Sft). This shed is directly connected to shed-5.

Building-1: 3 storied RCC building. The ground floor of the building is directly connected to Shed 1 but 1st and 2nd floors are independent. (Area-500 sft/floor).

Factory Address: Baimail, Konabari, Gazipur

Points of contact:

MD Rafiqul Islam

GM Compliance

01728635727

rafiqul@smsourcing.biz,rafiqul.auditor@gmail.com

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 (F-1 to F-19).

Table-1:

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 Ground floor of Building-1 by fire-rated construction .	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. If required, provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories.</p> <p>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.</p>	Within 3 months



F-2	Fire Rated Construction	The Boiler, Gas meter room is not separated by fire rated construction (openings, penetrations) from Iron section of Shed-1.	Separate the Boiler & Gas room by a minimum 4-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. Provide proper ventilation for Gas room.	Within 3 Months
-----	-------------------------	--	---	-----------------




F-3	Fire Rated Construction	The factory is using/storing CNG cylinders for operating boiler. Location: Near Gate 2	<p>The RSC Technical Guideline (Standard) V1, section 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building. However, if it is not feasible then conditionally those are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions.</p> <ol style="list-style-type: none"> 1. The storage building must be at least 3 meters away from any other building and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB). 	Within 1 Months
-----	-------------------------	---	--	-----------------



F-4	Means of Egress	Proper certification was not provided for fire rated doors installed in the factory for office building.	Submit proper certifications for installed fire doors during inspection for approval. If not available , or certification is not approved , install new, properly certified fire rated doors in accordance with RSC guideline.	Within 1 Month
-----	-----------------	--	--	----------------

F-5	Means of Egress	A single means of exit has been provided. Location: Building-1, 2nd floor.	Provide an additional exit.	Within 1 Month
F-6	Means of Egress	Minimum 36-in. egress aisles is not provided in Shed 1,Packing section.	Provide minimum aisle width of 36-in.	Within 1 Month
F-7	Means of Egress	Handrails are not provided on the both side of exit stair.	Handrails shall be provided on both sides of each stairway.	Within 1 Month



F-8	Means of Egress	Sliding Gate is provided in exit door. Location: Shed-3	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with RSC standard 6.8.1. If locks are required for security reasons, utilize special door locking features complying with NFPA 101	Within 1 Month
				
F-9	Means of Egress	Building did not have occupant load signage at the required locations.	Provide stair designation signs and occupant load signage at the required locations.	Within 1 Month

F-10	Means of Egress	Building did not have occupant load signage at the required locations.	Provide occupant load signage at the required locations.	Within 1 Month
------	-----------------	--	--	----------------

F-11	Means of Egress	Evacuation maps is not Posted at the entrance of required places.	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs.	Within 1 Month
F-12	Egress Lighting	Exit sign not provided at exit.	Illuminated exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 Month
F-13	Egress 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 1 Month
F-14	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 Month



F-15	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC Technical standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical standard. Keep written records on-site.	Within 1 Month
F-16	ITM of Extinguisher	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 The RSC Technical Guidelines (Standard).	Within 1 Month

F-17	Fire Alarm and Detection System (FADS)	The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC technical guidelines (standard).	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 RSC technical guidelines (standard) and NFPA 72. 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 6 months.
F-18	Inspection, Testing and Maintenance of FADS.	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with 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.	1 month after installation.
F-19	Human Element program	Fire drill are not performed as required.	Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A	Within 1 months