

INITIAL FIRE SAFETY INSPECTION REPORT

Pole Star Knit Composite Ltd

RSC ID: 24992

Noibari, Pubail, Gazipur City Corporatoin, Gazipur.

Geographical Coordinates of factory building: 23°56'01.2"N 90°26'59.9"E

Other Factories: Prime Sweater Ltd (ID-12896)



Inspected By: Nainin Nowrose

Date: 11 January 2024

Fire Safety Inspection Report

Pole Star Knit Composite Ltd

Introduction:

Pole Star Knit Composite Ltd Complex was surveyed for fire safety on **11/01/2024** 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 three (03) structures in the premises under this ID-24992. They are :

1. Production Building: 6 storied with semibasement (only 4th & 5th floor), RCC

Construction: Jan, 2013 to Aug, 2016 & Occupied: Jan, 2016

Construction approved by LGED, Gazipur on 05 Jan 2012

Construction Period: Interim.

Per Floor area: 13967.87 sqft (approx.)

2. Boiler Room: Single storied RCC

Construction: 06 Jan 2019 to 31 Dec 2020 & Occupied: Jan, 2021

Per Floor area: 228 sqft (approx.)

3. Fire Hydrant Room: 2 Storied RCC Building:

Construction: 01 Feb 2022 to 30 Nov 2022

Total Floor area: 2238 sqft (approx.)

Factory Address: Noibari, Pubail, Gazipur City Corporatoin, Gazipur.

Table-1: Finding & recommendation

| SI No. | Category | Findings | Required Action | Remediation Time Frame |
|--------|-------------------------|---|--|------------------------|
| F-1 | Fire Rated Construction | <p>The dining area is not separated by fire rated construction with the adjacent production occupancies.</p> <p>Location: 5th floor.</p> | <p>Dining shall be separated by minimum 3-hr fire rated construction. Provide at least two means of exits leading directly to the stairs in two independent and different direction.</p> <p>Or</p> <p>Relocated the dining area.</p> <p>If factory change the occupancy around the dining then need to meet the requirement of BNBC 2006, part 4 chapter 3 section 3.21.3 and table 3.2.1.</p> | Within 3 months |




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| F-2 | Fire Rated Construction | Liquefied or compressed gas cylinders are located within the factory without separation. | <p>LPG/CNG cylinders 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 non combustible 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, CIOB and all other applicable agencies, codes and standards. | Within 3 months |
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| F-3 | Egress Lighting | Exit signs were placed in areas that were not exits. | Remove exit signs (double sided) from noted areas to avoid confusion from actual exits. | Within 1 month |
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| F-4 | Egress Lighting | Manual on-off switch is provided for emergency lighting / exit sign units. | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 1 month |
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| F-5 | 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 |



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| F-6 | Means of Egress | <p>Aisles marking has not been provided on the floor properly. Location: 4th floor, sample section.</p> | <p>Provide minimum aisle width of 36-in and mark properly.</p> | <p>Within 1 month</p> |
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| F-7 | Fire Alarm & Detection System (FADS) | Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards. | <p>Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review.</p> <p>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.</p> | Design Review within 2 months and modification within 3 months (If require). |
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| <p>F-8</p> | <p>Fire Detection System (ITM of FADS)</p> | <p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72.</p> | <p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.</p> | <p>Within 1 month after installation.</p> |

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| F-9 | Fire Protection System(Standpipe) | Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards. | <p>Submit the standpipe system drawing to RSC for review.</p> <p>Once reviewed, install or modify the standpipe system 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.</p> | Design Review within 2 months and modification within 3 months (If require). |
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| F-10 | Inspection, testing, and maintenance of the Fire Pump (ITM). | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20 or as per RSC Technical Guideline (Standard). | Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 or as per RSC Technical Guideline (Standard). | Within 1 Month after installation. |
| F-11 | Fire Protection System(ITM of Standpipe) | Inspection, testing, and maintenance for the standpipe system is not in accordance with NFPA 25 or as per RSC standard. | Inspect, test and maintain the standpipe system in accordance with NFPA 25 or as per RSC Technical Guideline (Standard) and keep written records on-site. | Within 1 Month after installation. |