

INITIAL FIRE SAFETY INSPECTION REPORT

BKC sweater Limited (Extension)

RSC ID: 25499

Plot NO 212-214, Degerchala main road, DEGERCHALA, National UNIVERSITY, Gazipur

Other Factories: BKC sweater Limited [RSC ID: 9402]



Inspected By: Md Kamrul Hasan

Date: 27-February-2024

Fire Safety Inspection Report

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Introduction:

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BKC sweater Limited (Extension) complex was surveyed for fire safety on **27-February-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

SL No	Building Name	Building Construction Period / Approval Authority	Occupied	Structure type / Area	Construction time
1	Extension Production Shed	Oct 2021 to Apr 2023 / RAJUK on 29-Nov-2018	May 2023	Steel / 18860 sq. ft.	Interim
2	Compressor Shed	01 Apr 2023 to 15 Apr 2023 / RAJUK on 29-Nov-2018	May 2023	Steel / 130 sq. ft.	Interim
3	ETP Shed	Nov 2020 to Sep 2021 / RAJUK on 29-Nov-2018	June 2021	Steel / 750 sq. ft.	Interim
4	Staff Dining Shed	02 Feb 2020 to 28 Feb 2020 / RAJUK on 29-Nov-2018	June 2020	Steel / 605 sq. ft.	Interim
Note : In the same premises there is another factory named BKC sweater Limited [RSC ID: 9402] With 4 structures.					

Factory Address: Plot NO 212-214, Degerchala main road, DEGERCHALA, National UNIVERSITY, Gazipur.

Findings & Recommendations :

BKC sweater Limited (Extension)

Table 1 summarize 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 review.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Rooms used for combustible storage (finished goods storage) are not separated by fire rated construction and open to the jacquard section area. (Extension Production 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 1 hr. fire rated fire rated barrier construction.	Within 3 months
				

2	Fire Rated Construction	The compressor rooms are not separated by fire rated construction due to openings, non-rated doors with the jacquard section. (Compressor Shed)	Compressor room shall be separated from other occupancies by a minimum 1 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building.	Within 3 months
				

3	Fire Rated Construction	The main structural elements of the building are constructed by steel which is non-rated and were found in exposed condition without any fire protection. (Extension Production Shed)	The building shall be constructed as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 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 passive fire protection system.	Within 6 months
 				

4	Fire Rated Construction	The exit discharge path is less than 10 ft wide and is not seperated from the building interior due to non rated openings & penetrations. (Extension Production Shed)	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire seperation. Alternatively, provide a second remote discharge path to the public way.	Within 3 months
 				

5	Means of egress	Building did not have occupant load signs at required locations. (Extension Production Shed, Staff Dining Shed)	Provide occupant load signs at all required locations.	Within 1 month
6	Means of egress	Fire evacuation maps was not posted at all the required locations. (Extension Production Shed)	Fire evacuation maps shall be posted at the entrance to each exits.	Within 1 month

7	Means of Egress	Sliding doors are provided at building exits. (Extension Production Shed)	Replace all sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
				

8	Means of egress	The exits in the finished goods area are not remotely located from each other (less than one-half maximum diagonal distance of pace) such that a single fire event could compromise both exits. (Extension Production Shed)	Modify exit arrangement to provide remote exits. Alternatively, provide sprinkler protection in accordance with NFPA 13.	Within 2 months
9	Means of egress	Travel distance of egress exceeds limit (approximately 64 meter) on the Finishing Goods area. (Extension Production Shed)	Reconfigure the egress arrangement or provide an additional exit so that the travel distance shall not exceed 30 m (BNBC 2006-3.15.1).	Within 2 months

				
10	Means of Egress	West side discharge path along a means of egress is interrupted by obstruction (fire door open on the egress routes). (Extension Production Shed)	The path of egress travel along a means of egress shall not be interrupted by any obstruction.	Within 1 Week

				
11	Emergency Lighting	Exit signage and directional signs were not provided along a path of egress. (Extension Production Shed)	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 directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month

 				
12	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. (All Buildings)	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month
13	ITM Emergency Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard). (All Buildings)	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 month

14	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). (All Buildings)	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
  				

15	ITM of Fire Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. (All Buildings)	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation.
16	ITM extinguisher	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. (All Buildings)	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines.	Within 1 month