

INITIAL FIRE SAFETY INSPECTION REPORT

Pacific Blue (Jeans Wear) Ltd

RSC ID: 24330

A-8/1 Jalessar, Savar, Dhaka-1343, Bangladesh

Other Factories: None



Inspected By: Pantha Pallob Das & Md. Khalaquzzaman

Date: 15 February 2022

Fire Safety Inspection Report

Pacific Blue (Jeans Wear) Ltd

Introduction:

Pacific Blue (Jeans Wear) Ltd complex was surveyed for fire safety on 15/02/2022 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.

General Factory Information

Factory Building name(s): Building-1 (Production Building). The building is 7 storied steel structure. Initially the building was approved as only 7 storied building and constructed so but later on the building is reapproved adding a partial basement covering 53% of ground floor area. The basement construction work is in excavation stage right now where the entire building construction work completed on last April 2021.


Findings & Recommendations :

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 review.

Findings & Recommendations:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The Building is newly constructed where structural members are constructed by steel but fire protection for ensuring type-I construction following table 3.2.4 and 3.3.1 of BNBC-2006 is not properly provided. (Note: The building is in under construction status).	The building shall be type-1 construction as per Table 3.2.4, 3.3.1 and 3.1.9 of BNBC-2006. Provide required fire rating on the structural elements following Table 3.3.1 and 3.19 of BNBC-2006 Part 4. Consult a qualified fire protection engineer to design the rated construction for required rating.	Within 6 months




F-2	Fire Rated Construction	<p>Generator room is not properly separated by fire rated construction with exit discharge path.</p> <p>Location: Ground Floor/ Stair No-05/ South West corner.</p>	<p>Generator room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p>Or</p> <p>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.</p>	Within 3 Months
				
F-3	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.</p> <p>Location: 1st, 4th, 5th & 6th Floor.</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 Months

F-4	Fire Rated Construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction. Location: 1st & 6th floor.</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:-</p> <ol style="list-style-type: none"> 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 	Within 3 Months



F-5	Fire Rated Construction	2500 liters of diesel (1300 liters inside of boiler room and 1200 liters inside of generator room) were stored without any fire separation.	Separate the Fuel storage by minimum 3-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separation for 3-hrs. As, license issue is applicable so, collect license from Explosive department of Bangladesh and follow storing guideline provided with license.	Within 3 Months
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F-6	Fire Rated Construction	<p>Unsealed penetrations and openings were identified in exit stair enclosures.</p> <p>Location: Ground floor/ Stair-2</p>	<p>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 minimum of 1.5-hr.</p>	Within 3 Months
				
F-7	Fire Rated Construction	<p>Elevator shafts are directly open into exit enclosure which is a violation of ACCORD Standard-6.14.3.</p> <p>Location: Stair enclosure 1 & 4</p>	<p>For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3. So, provide separate enclosures for elevator and stair. The elevator shaft shall be fire separated for 2-hrs at least.</p>	Within 3 months



F-8	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies were not found properly sealed as required.</p> <p>Location: Electric Busbar, Rainwater harvesting pipe, Sewerage pipe for Toilet (All Floor).</p>	<p>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 guideline.</p> <p>or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months
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F-9	Fire Rated Construction	<p>Dining area (E-3, capacity-1250) was not separated by fire rated construction with adjacent store room. The above and bottom floor of the dining was occupied for production, which is a moderate hazard occupancy (G2).</p> <p>Location: 5th Floor</p>	<p>The dining shall be fire separated from store room by minimum 3 hr. rated construction with minimum 3-hr opening protection. The dining area (E3) is not permitted with moderate hazard occupancies (G2) following table 3.2.1of BNBC-2006. Required number of exits for entire dining arrangement shall lead directly to safe discharge path without passing through any other occupancies.</p>	Within 3 months
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F-10	Fire Rated Construction	<p>Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch).</p> <p>[Note: Existing parapets is 30 inch]</p>	<p>Provide parapets or guards with a minimum height of 1067mm (42 inch.).</p>	<p>Within 3 months</p>
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F-11	Means of Egress	Building did not have stair designation signs, floor designation signs and occupant load signs at required locations.	Provide stair designation signs, floor designation signs and occupant load signs at required locations following appropriate guideline.	Within 1 Month
F-12	Means of Egress	Fire evacuation maps was not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 Month
F-13	Means of Egress	Handrails was not provided on both side of the ramp. Location: Main entrance/ east side	Provide handrails on both sides of the ramp. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread.	Within 1 Month



F-14	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 3 Months
F-15	Fire Protection System (Standpipe & Sprinkler System).	The high-rise building has an occupied floor greater than 23 meter (75 feet) where required automatic sprinkler protection is not installed in accordance with NFPA-13. (Basement is under construction where sprinkler/standpipe system will be installed after completing the construction).	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, Accord Standard and NFPA 13,14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 months, Installation/Modification if required within 4 months.
F-16	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

F-17	Fire Protection System(ITM of Sprinkler)	Inspection, testing, and maintenance for the Sprinkler system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the sprinkler system in accordance with NFPA 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.
F-18	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the fire pump in accordance with NFPA 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

F-19	Fire Alarm & Detection System (FADS)	<p>The Required Fire Alarm system is not installed in accordance with the ACCORD standard and NFPA-72.</p> <p>(Basement is under construction where fire alarm system will be installed after completing the construction).</p>	<p>Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, Accord 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.</p> <p>Also 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>Design within 2 months, Modification if required within 4 months.</p>
F-20	Fire Detection System (ITM of FADS)	<p>Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard</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>