

# INITIAL FIRE SAFETY INSPECTION REPORT

## K.C Bottom & Shirt Wear Company (New Building)

RSC ID: 24147

K.C Industrial Park, Ratuti, Katchkura, Uttarkhan. Dhaka-1230.

Google Coordinates: 23.858527, 90.465917

Other Factories: None



Inspected By: Mahfuza Khanom & Md Kamrul Hasan

Date: 04 March 2021

## Summary Report

**Factory Name: K.C Bottom & Shirt Wear Company (New Building)**

### Summary:

K.C Bottom & Shirt Wear Company (New Building) complex was surveyed for fire safety on 04/03/2021 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.

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 approval.

## Findings & Recommendations :

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Exit stairs are not separated from work areas and other spaces on each floor by fire rated construction due to unprotected openings and penetrations.	<p>Separate the exit stairs from from work areas and other building spaces on all floor levels by minimum 2-hr firerated construction. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Provide vestibules to</p> <p>separate any storage areas. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> <p>Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.</p>	Within 3 months



2	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p>Location: Ground floor to 5th floor</p>	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if require.</p>	Within 3 months
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3	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures.	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
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4	Egress	Handrails or guardrails are not provided at Ground floor.	Provide handrails on both sides of the exit stair. 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Guards shall be provided at all open sides of means of egress that exceed 760mm (30in.) above the floor or finished ground below. New guard shall have a minimum height of 42 in.	within 1 month
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5	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location:-Throughout the building.</p>	<p>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.</p>	Within 3 months
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6	Egress Lighting	<p>Adequate directional signs are not provided where direction of the path of travel to an exit has changed. Location: Throughout the building</p>	<p>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.</p>	Within 3 months
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7	Egress	In some places width of aisles is less than 0.9m (36-in.).	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months
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8	Fire Protection	No smoking sign is not observed in the factory building.	<p>Factory shall provide no-smoking sign at all required places. Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules (1.6.3.7) Part 53 requires that smoking be prohibited. Signs shall be posted in Bengali and English at all building entrances.</p> <p>If an Owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs required in 13.5.2.</p>	Within 1 month
9	Fire Alarm & Detection system	Installation of fire alarm and detection system is going on. Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	<p>Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval; modification (if required) shall have to done as per the reviewed design and standard.</p>	Design within 2 months, Installation/ Modification within 4 months



10	Fire Alarm & Detection system (ITM)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month (After installation)
11	Fire Protection	Fire pump, water supply & standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22, 25 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval; modification (if required) shall have to done as per the reviewed design and standard.	Design within 2 months, Installation/ Modification within 4 months



12	Fire Protection (ITM)	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and ACCORD standards.	Within 1 month (After installation)
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13	Fire Rated Construction	Elevator is open into exit stair enclosure. Location: Stair-2 (All floors)	Modify the elevator and stair enclosure arrangement in a way to satisfy Accord standard 6.14.3. Elevator shall not open into an exit enclosure.	Within 4 months
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