

# FIRE SAFETY INSPECTION REPORT

## AKR Fashions Ltd. (New)

Factory ID: 24502

Tetul Jhora, Jorpul Bus Stand, Rajfulbaria, Savar

23.80191, 90.26149

Other Factories in the Building: None



Inspected by: Md. Rakibul Alam & Nainin Nowrose

Date: 05 December 2022



## AKR Fashions Ltd. (New)

### Summary

**AKR Fashions Ltd. (New)** complex was surveyed for fire safety on 05 December 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.

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.



**Table 1. Findings And Recommendations**

| No.                                                                                                                                                                              | Category        | Finding                                                                                                          | Recommendation                                                                                                                                               | Remediation Timeframe |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                                                                                                              | Fire Protection | The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. | Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test. | Within 4 months       |
| <div></div> |                 |                                                                                                                  |                                                                                                                                                              |                       |
| F-2                                                                                                                                                                              | Fire Protection | Inspection, testing and maintenance of the automatic fire alarm system is not in accordance with NFPA 72.        | Inspect, test and maintain the automatic fire alarm system and keep written records on-site, in accordance with NFPA 72.                                     | Within 5 months       |



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| F-3 | Fire Rated Construction | Liquefied or compressed gas cylinders are located within the factory. | <p>The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building as per RSC.</p> <p>Alternatively</p> <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"><li>1. The storage building must be at least 3 meters away from any other building and boundaries.</li><li>2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction.</li><li>3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours.</li><li>4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders.</li><li>5. The building must be mechanically ventilated to control the accumulation of flammable vapors.</li><li>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.</li></ol> | Within 3 months |
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| F-4 | Fire Rated Construction | Room used for combustible storage is not separated by a minimum 1-hr fire-rated construction. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
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| F-5 | Egress Lighting | Exit signage was not provided at some exits / along the path of egress / in a readily visible location. | 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. | Within 1 month |
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| F-6 | Egress                  | Building did not have occupant load sign at required locations.                                                                                                                                         | Provide occupant load sign, at each exits                                                                                                                                                                                                                                                                                                                                                                                                               | Within 1 month  |
| F-7 | Fire rated Construction | The factory shed is steel construction which appears to be nonrated and were found in exposed condition.<br>(Construction date was Dec 2016 – Jun 2017, thus the interim building shall meet BNBC 2006) | Interim construction shall be Type-1 or Type-2 construction in accordance with RSC standard 3.5.2.1 and BNBC-2006 Part-2, Table-3.2.4.<br>Ensure fire resistive rated construction following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC-2006 Part 4.<br>Consult a qualified fire protection engineer to achieve the required fire rating.<br><br>Chemical storage buildings shall be Type-1 construction. | Within 6 months |



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| F-8  | 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-9  | Egress Lighting | Inspection, testing and maintenance for the emergency lighting system was not in accordance with ACCORD standards.                                              | Inspect, test and maintain the emergency lighting system in the accordance with ACCORD standards. Keep written records on-site.                                                                                                                                                                                     | Within 3 months |
| F-10 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Specify location(s) | 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 3 months |
| F-11 | 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-12 | Fire Protection | 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 on-site, in accordance with NFPA 10. | Within 1 month |
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| F-13 | Egress | The day-care room does not meet RSC standard 3.4.2.1.1. (Travel distance) | Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft). | Within 3 months |
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