

INITIAL FIRE SAFETY INSPECTION REPORT

DMC Apparels Ltd

RSC ID: 26420

Geographical Coordinates: 23.913271175630978, 90.31022252393184

Address: Holding-157/8, Road-01, Ward-08, Block-D, Zirabo, Ashulia, Savar, Dhaka-134

Other Factories: Arunima Sportswear Ltd (ID-9707) & Arunima Sportswear Ltd (Extension)(ID-24596)



Inspected By: Md. Anisuzzaman

Date: 04-November-2025

Fire Safety Inspection Report

DMC Apparels Ltd

Introduction:

DMC Apparels Ltd; complex was surveyed for fire safety on **04-Nov-2025** 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

There are total three structures covered under this RSC ID-26420. Among these, one structure is for production and other two structures are ancillary. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	BLOCK-J (FACTORY BUILDING), B+G+2M+6 Total Floor Area: 99,892 Sq. ft.	May-2017 to Jun-2019	Approved from Rajuk , Dhaka on date -16-06-2017 for all structures	Jul-2019	RCC	Interim Building
2	Block-K (Compressor Shed), Single storied Total Floor Area: 1185 Sq. ft.	Mar-2019 to Nov-2019		Nov-2019	Steel	Interim Building
3	Block-M: (RMS Room) Single Storied Total Floor Area: 135 Sq. ft.	Jun-2024 to Sept-2024		Oct-2024	Steel	Interim Building

Factory Address: Holding-157/8, Road-01, Ward-08, Block-D, Zirabo, Ashulia, Savar, Dhaka-134

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Findings & Recommendations :

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 review.

Table-1: All structures under this ID

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	The fire doors were found tied by unauthorized means and also interfacing with the fire alarm system & door closers were not properly functional during the inspection. Location: 5th floor at north-East side exit stair, Block-J.	Ensure that the fire doors are self-closing and positive latching. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 Months
				
F-2	Means of Egress	During the inspection, it was noted that the fire doors were not effectively latching and door coordinator were not properly functional. Location: All floors, Block-J.	Ensure that the fire doors are self-closing and positive latching. If fire doors are required to be held open for operational purposes, provide automatic closing devices tied to the fire alarm system.	Within 3 Months



F-3	Means of Egress	Posted Fire evacuation maps are not updated as per site conditions. Location(s): Block-J.	Update the fire evacuation map and shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 13.3.	Within 1 Month
F-4	Means of Egress	The egress path along means of egress has interrupted by obstruction/storage/process work/machineries. Location: 3rd floor to 6th floor, Block-J.	Keep egress paths and stairs clear of storage/obstruction in accordance with section 6.3.9 of RSC Technical Guidelines (Standard)¹ V1.0. Means of egress shall be maintained continuously free and clear of all obstructions or impediments to full instant use in the case of fire or other emergency. No furnishings, decorations, or other objects shall obstruct exits and access to exits. Nothing shall obstruct or impede visibility to exits.	Immediately



F-5	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): Block-J.	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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.	Within 1 Month
F-6	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): Block-J, Block-K & Block-M.	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.	Within 3 Months
F-7	Means of Egress	Exit stairs serve more than 5 stories and Posted re-entry provisions are not as per standard on all floors. Location: Block-J.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard)¹ V1.0. Section 6.8.3.1.	Within 3 Months

F-8	Means of Egress	Storage was located in the exit stair/stair enclosure. Location: All exit stair, All floors, Block-J.	Remove all storage from exit stairs and egress path in accordance with section 13.8 of RSC Technical Guidelines (Standard)¹ V1.0. Means of egress shall be maintained continuously free and clear of all obstructions or impediments to full instant use in the case of fire or other emergency. No furnishings, decorations, or other objects shall obstruct exits and access to exits. Nothing shall obstruct or impede visibility to exits.	Immediately
				

F-9	Means of Egress	It was observed that installed some fire doors accessories are missing/damaged, normal printed on the fire doors, some door were holes, smoke sealing missing & listing label missing. Location: West & West-south side exit stair, Block-J.	Replace/install the non-functional/missing fire door accessories and properly inspect, test & maintain fire door as per NFPA 80. In cases of a field modification, the laboratory with which the product or component being modified is listed shall be contacted through the manufacturer and a written or graphic description of the modifications shall be presented to that laboratory. A written authorization from that laboratory is required. Field modification shall conduct as per NFPA 80.	Within 3 Months
				
F-10	Means of Egress	Proper certification was not available for fire rated doors and door accessories installed in the factory. Location: Block-J. Non-Compliance: Certificate is not available of the installed fire doors on site for verification.	Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification.	Within 3 Months

F-11	Means of Egress	Unsealed penetrations and openings are located in exit stair enclosures. Location(s): West side exit stair , Block-J. Non-Compliance: Unseal penetration through electrical cable Box.	No other penetration into and through the exit enclosure except for fire alarm equipment electrical raceway, required exit doors, sprinkler piping, standpipes, and electrical conduit serving the exit enclosure is permitted in accordance with section 6.14.4 of RSC Technical Guidelines (Standard)¹ V1.0. So, relocate the electrical wires/raceways to somewhere else avoiding the exit enclosure, and seal the created unprotected openings with a minimum of 1.5 hours listed/certified fire-rated materials. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating. Or seal the penetration by 2-hr masonry construction.	Within 3 Months
 				
F-12	Means of Egress	Building does not have updated occupant load signs at the required locations on the first floor (Dining capacity not included). Location: Block-J.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4.	Within 1 Month

F-13	Means of Egress	Parapets is provided which less than 42inch in occupiable roof. Location: Block-J. Available: 38 inch.	Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.	Within 3 Months
				
F-14	Means of Egress	The guards have gaps that are too large, allowing a sphere 200 mm (8 in.) in diameter to pass through. Location: Handrail , Block-J.	Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 3 Months

F-15	Means of Egress	A single means of exit has been provided on 2nd floor of the interim construction. Location: 2nd floor of the north-east side, Block-J.	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard), section 6.6.2. Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6.	Within 3 Months

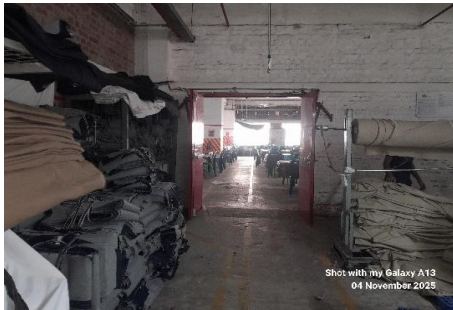
F-16	Means of Egress	Building does not have stair/floor level designation signs at required locations on all floors. Location: Block-J.	Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.	Within 1 Month
F-17	Fire rated construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: 3rd & 4th Floors, Block-J.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. or, If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 Months
 				

F-18	Fire rated construction	It was observed that one Cargo lift shafts open directly into the production floors which is separated by 2 hr. fire-rated barrier, and the installed fire doors for opening protection which not properly functional. Location: Block-J. Non-Compliance: 1. Installed fire doors are not functional. 2. Installed fire doors certificate are not available for verification.	Elevator shaft shall be separated from the production area by 2 hours fire fire-rated construction. 2-hr fire barriers shall be protected with minimum 1.5-hr fire protective opening assemblies. Keep proper datasheet & certifications for installed fire-rated doors & accessories on-site for verification.	Within 3 Months
 				

F-19	Fire Rated Construction	Penetrations through floor/ceiling & wall assemblies are found unsealed for BBT & electrical cable. Factory has installed fire-rated sealant materials to seal electrical cable penetrations & installed fire doors but required documents, relevant design ,certificate etc. not available on-site. Location: All floors, Block-J. Non-compliance: 1. Installed fire door certificate are not available for verification. 2. Smoke sealing missing. 3. Certificate & design are not available for provided fire stop sealant materials for horizontal penetration purpose.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per the manufacturer's published installation guidelines and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard) Or, Provide a minimum 2-hr fire-rated shaft to separate the penetration from each floor if required. Installation shall be as per the manufacturer's published installation guidelines and the certification authority guidelines to ensure the fire rating. Keep proper datasheet ,certifications & design for installed fire-stop sealant materials & installed fire doors on-site for verification.	Within 3 Months
				

F-20	Fire Rated Construction	It was observed that plastic plumbing pipe penetrations through floor/ceiling assemblies are found unsealed due to installed fire rated collar certificate, design and installed fire doors certificate are not available on side for verification. Location: All floors, Block-J. Non-Compliance: 1. Installed fire door certificate & datasheet are not available on side. 2. Installed fire door are not proper functional. 2. Installed fire rated collar certificate & design are not available on side.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per the manufacturer's published installation guidelines and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard) Or, Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required. Keep proper datasheet ,certifications & design for installed fire rated collar & installed fire doors on-site for verification. If fire doors are required to be held open for operational purposes, provide automatic closing devices tied to the fire alarm system.	Within 3 Months
  				

F-21	Fire Rated Construction	Elevator shafts open directly into the exit enclosure, which doesn't comply with RSC Technical Guidelines (Standard), section 6.14.3. Location: West side exit stair, Block-J.	Provide a minimum 2-hr fire rated elevator shaft to separate it from stair enclosure. No discharge is accepted through elevator shaft. Seal all openings to maintain fire separations.	Within 3 Months
				
F-22	Fire Rated Construction	Dining (E4=224) area is not separated from the production due to installed 2hr fire-rated door on the store & non functional fire doors. Location: 3rd Floor, Block-J. Non-Compliance: 1. Installed 2hr fire door with non functionality. 2. Exit through production floor. 3. Installed fire door technical datasheet & certificate are not available on side.	Separate the dining area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations. Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space. Assemblies of Occupancy E3, E4 and E5 shall have at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different directions. (part-4, section-3.21.3, BNBC-2006).	Within 3 Months



F-23	Fire Rated Construction	Chemical storage area(hydrogen peroxide& Acid) is not proper separated by fire-rated construction due to unprotected opening & unsealed penetrations. Location: Ground floor, Block-J.	Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour. Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13. Or, Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006).	Within 3 Months
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F-24	Fire Rated Construction	The required fire separation distance for the (BLOCK-J (FACTORY BUILDING)) does not comply with the requirements of BNBC 2006. Location: South, North & east side, Block-J.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
 				

F-25	Fire Rated Construction	The ETP pump room is not provided with adequate fire separation. Location: Basement, Block-J. Non-compliance reason: Unprotected opening.	Separate the ETP pump room from ground floor by 2hr fire rated construction.	Within 3 Months
 				
F-26	Fire Rated Construction	Storages were found underneath the cutting tables. Location: 3rd & 4th floors, Block-J.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 Or, Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.	Within 3 Months



F-27	Fire Alarm & Detection System (FADS)	The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). Location(s): Block-J, Block-K & Block-M.	Submit the fire alarm and detection system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building 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 within 2 Months and modification/ installation with 4 Months
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F-28	Inspection, Testing & Maintenance (Fire)	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 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation
F-29	Fire Suppression System (SUPS)	The highest occupied floor of the main building is over 75 feet above grade, mandating a sprinkler system along with a class I standpipe. The factory has installed a sprinkler system with a class III standpipe, requiring a detailed review to ensure compliance with NFPA 13, 14, 20, 22, and 24 and RSC Technical Guidelines (Standard). Location: Block-J.	Submit the fire Suppression System (fire pump, standpipe and sprinkler) design to RSC for review. Once the design is reviewed, install and modify the fire Suppression System throughout the building in accordance with review comment, RSC Technical Guidelines (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 and modification/ installation with 4 Months
				

F-30	Fire Suppression System (SUPS)	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and RSC Technical Guidelines (Standard)¹ V1.0. Location: Block-J.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)¹ V1.0. and NFPA 14 and 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design within 2 Months and modification/ installation with 4 Months
				
F-31	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of the standpipe system, sprinkler system & fire pump are not in accordance with NFPA 25.	Inspect, test, and maintain the standpipe system, sprinkler system & fire pump and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation
F-32	Inspection, Testing & Maintenance (Fire)	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 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month

F-33	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) ¹ V1.0..	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) ¹ V1.0.. Keep written records on-site.	Within 1 Month
F-34	Inspection, Testing & Maintenance (Fire)	Written housekeeping policy was not found, which is required as per RSC Technical Guideline (Standard) section 13.6.	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m2 (500 ft2). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).	Within 1 Month
F-35	Inspection, Testing & Maintenance (Fire)	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs. Smoking sign shall post in accordance with section 13.5 of RSC Technical Guideline (Standard).	Within 1 Month
F-36	Inspection, Testing & Maintenance (Fire)	Hot-work permit program is not established yet, although it is required. However, hot-work is not going on in the factory right now.	Develop a hot-work permit program. The program must comply with the requirements of NFPA 51B. In general, this program should address the process of request and approval of authorities, necessary checks prior approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and re-approval procedures, etc.	Within 1 Month

F-37	Inspection, Testing & Maintenance (Fire)	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0.	Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0. Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A.	Within 1 Month
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