

INITIAL FIRE SAFETY INSPECTION REPORT

Silver Composite Textile Mills Ltd. (Extension)

RSC ID: 26398

Geographical Coordinates: 24.123179, 90.381032

Address: Vill. B.K. Bari, Taltoli, P.O.: Mirzapur, Gazipur

Other Factories: Silver Composite Textile Mills Ltd.(ID-12214) in this premises



Inspected By: Md. Anisuzzaman

Date: 07-October-2025

Fire Safety Inspection Report

Silver Composite Textile Mills Ltd. (Extension)

Introduction:

Silver Composite Textile Mills Ltd. (Extension); complex was surveyed for fire safety on **07-Oct-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 8 structures covered under this RSC ID-26398. Among these, one structure is for production and other seven structures are ancillary. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Garments Building-2, B+G+5 Storied RCC building Total Floor Area: 70443 Sq. ft	April-2021 to Mar-2023	(Building Permit Drawing LGED [Gazipur Sadar] dated 25-January-2022 for all structure)	Mar-2023	RCC , B+G+5	New building
2	Boiler Building, Single Storied Total Floor Area: 1177 Sq. ft	Feb-2022 to Jun-2022		Dec-2023	RCC, Single storied	New Building
3	Utility Building Total Floor Area: 3225.85 Sq. ft	Feb-2025 to under construction		Not occupied yet.	RCC, G+M+1	New Building
4	RMS Room Total area: 333 Sq. Ft	Dec-2024 to Feb-2025		Vacant	RCC	New Building
5	Fire Pump House Total area : 4289.79 Sq. Ft	Dec-2019 to Dec-2020		Mar-2023	RCC	Interim Building

6	Connecting Bridge Total area: 1388 Sq. Ft	Feb-2022 to Jun-2022	Dec-2023	Steel	New Building
7	Machine Oil Store Room Total area : 95 Sq. ft	Dec-2019 to Dec-2020	Mar-2023	RCC, Single storied	Interim Building
8	Main Gate Security Control Room, Total Floor Area: 200 Sq. ft	Nov-2015 to Mar-2016	Mar-2016	RCC	Interim

Factory Address: Vill. B.K. Bari, Taltoli, P.O.: Mirzapur, Gazipur

Points of contact:

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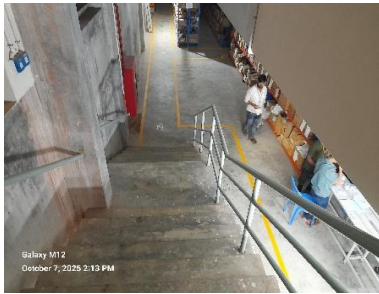
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Findings & Recommendations :

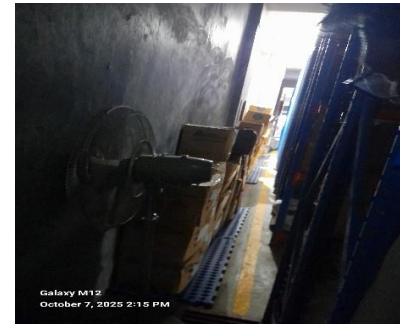
Table-1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for review.

Table-1: All structures under this ID

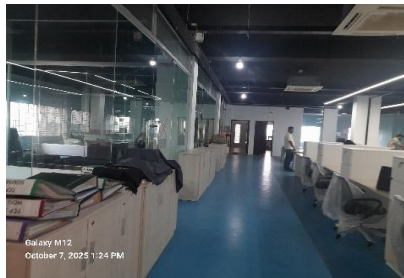
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction Location(s): Garmentss Building-2, Non-compliance: 1. Unprotected opening at basement floors. 2. Non-functional installed fire doors. 3. Installed fire doors were not effectively latching. 4. Open by external objects.	The exit stair enclosure shall be provided with a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).	Within 3 Months



F-2	Means of Egress	The egress path along means of egress has interrupted by storage Location: Basement floor of the Garments Building-2.	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
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F-3	Means of Egress	Posted Fire evacuation maps are not updated as per site conditions. Location(s): Garments Building-2 & all other structure.	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	Aisles were found missing in several locations of the Garments building-2. Location: 4th & 5th floor of the Garments Building-2.	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 1 Month



F-5	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): All floors of the Garments Building-2.	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): All floors of the Garments Building-2.	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 do not have required re-entry provisions on all floors. Location: Garments building-2.	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	Stair clear width was found less than 60 in. Location: South -West & North-West of the Garments Building-2. Available Stair Width: 53inch & 52inch at basement floors.	Stairs shall have a minimum clear width of 60 in for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6.	Within 3 Months
				
F-9	Means of Egress	The egress court [serving east exit] is less than 10 ft wide and is not separated from the building interior, which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard) ¹ V1.0. Location: East side of the Garments Building-2.	Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court. 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 separation.	Within 3 Months



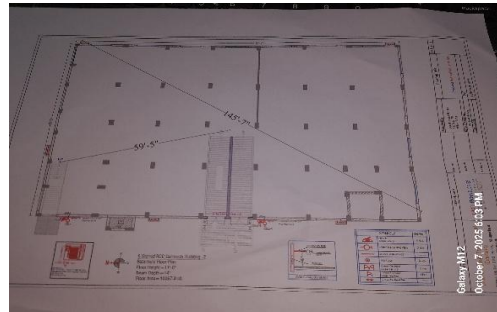
F-10	Means of Egress	Doors along means of egress are provided with non-compliant locking devices. Location: Exit doors of the Ground Floor, 4th & 5th floor of the Garments Building-2.	Remove locking devices from all egress devices in accordance with section 6.8.2 of RSC Technical Guidelines (Standard)¹ V1.0. No locks or other devices shall be installed on a means of egress component that would prevent any occupant from having safe egress from the building or structure and doors shall not be locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices are prohibited unless meet the following conditions: • Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Turning a door handle and disengaging a lock is considered two motions. • Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately
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F-11	Means of Egress	Doors in the means of egress do not have the required minimum width. Location: South-West & East side of the all floors exit stair doors of the Garments Building-2. Available Width: 34inch & Pocket gate of basement floor : 36inch.	For Interim & New building, Doors in a means of egress shall have a minimum width of 1 m (39 in.). in accordance with section 6.5.6.1 of RSC Technical Guidelines (Standard)¹ V1.0.	Within 1 Month
 				

F-12	Means of Egress	Building does not have updated occupant load signs at the required locations. Location: All floor of the Garments building-2 & other all structures.	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	Building does not have stair/floor level designation signs at required locations on all floors. Location: Garments Building-2.	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-14	Means of Egress	Exit access corridor(s) serving more than 30 occupants is not separated by fire rated construction or protected by sprinkler system in accordance with NFPA 13 and section 6.3.1.1 of RSC Technical Guidelines (Standard)¹ V1.0. Location: Ground floor of the Garments Building-2.	1. Separate the exit access corridor by a minimum 1-hr fire rated construction. Or 2. Provide automatic sprinkler system throughout the storey as per NFPA 13.	Within 3 Months



F-15	Means of Egress	The exits are not remotely located from each other such that a single fire event could compromise both exits of the building. Location: Basement floor of the Garments Building-2. Diagonal Distance: 145feet 7inch. Exit Distance: 59 feet 5inch.	Provide additional exit or reconfigure the exit arrangement to 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
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F-16	Means of Egress	Minimum ceiling height of the production floor is less than 3.3 meter for New Building. Location: All floor except basement floor of the Garments Building-2. Available ceiling Height: 9feet 11inch.	The ceiling height of a production floor shall not be less than 3.3 meter as per article 1.2, chapter 1, part III and article 2.11, Part III, Chapter -2, BNBC 2020.	Within 3 Months
 				
F-17	Means of Egress	Doors are swing out over aisles. Location: 4th floor of Garments Building-2.	A landing shall be provided on both sides of doors used in the means of egress to facilitate uninterrupted egress of occupants. Door shall not swing out over stairs/aisles. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.	Within 3 Months

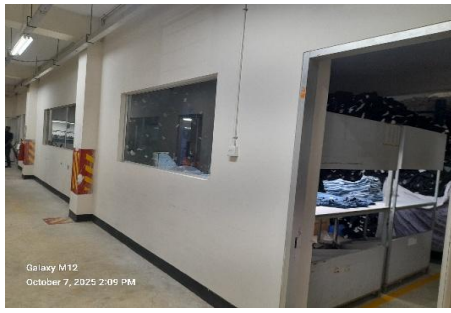


F-18	Means of Egress	Handrails are provided on both sides of each exit stairs on all floors which height is less than as per standards. Location: Basement floor of the Garments Building-2. Available: 32inch.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height 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.). 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.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.	Within 3 Months
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F-19	Means of Egres	The guards have gaps that are too large, allowing a sphere 200 mm (8 in.) in diameter to pass through. Location: Handrail of the all Exit stairs of the Garments Building-2.	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-20	Means of Egress	Storage areas & basements and similar normally unoccupied spaces discharges directly into the exit stair enclosure. Location(s): Basement floors & First floor to 3rd floor of the Garments Building -2.	Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)¹ V1.0. Provide a min 1-hr fire rated door on the exit stair side and a 1.5 hr./1-hr fire rated door on the Store, generator, sub-station room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard)¹ V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 Months
 Galaxy M12 October 7, 2025 1:56 PM		 Galaxy M12 October 7, 2025 1:49 PM	 Galaxy M12 October 7, 2025 2:01 PM	 Galaxy M12 October 7, 2025 2:20 PM

F-21	Fire rated construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas. Location: Ground floor of the Garments Building-2. Non-compliance reason: Unprotected Opening.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).	Within 3 Months
 				
F-22	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: South-West(cargo lift) & North-West (passenger lift) side at ground floor of the Garments Building-2.	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-23	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location: Through the plastic Plumbing Pipe of the Garments Building-2.	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.	Within 3 Months
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F-24	Fire Rated Construction	A connecting corridor (enclosed_non rated) has been constructed between two buildings which is also functioning as a horizontal exit for one of the building. However, fire/smoke propagation between buildings are not restricted. Location: Connecting Bridge Between Garments Building-2 & Building-1(Old ID-12214) on second floor. Non-Compliance: 1. Non-functional of the installed fire doors.	Separate the buildings with a minimum 2-hour fire-rated construction on both sides of the connecting corridor. Opening protection extending up to 10 feet beyond the connecting corridor shall meet section 4.6 of RSC Technical Guidelines (Standard)¹ V1.0.	Within 3 Months
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F-25	Fire Rated Construction	Elevator shafts open directly into the production floor without proper fire separation due to unprotected opening. Location: 5th floor at north-west side(passenger lift) of the Garments Building. Non-Compliance: South-West side(Cargo lift) 1. Non-functional of the installed fire doors. 2. Open by external object. 3. Certificate & Technical data sheet missing of installed fire doors.	Elevator shaft shall be separated from production area by 2 hours 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
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F-26	Fire Rated Construction	The required fire separation distance for the Garments Building-2 does not comply with the requirements of BNBC 2020. Location: East & South Side of the Garments Building-2.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 6 Months
 				

F-27	Fire Rated Construction	Basement floor is not separated from ground floor(loading/unloading area) under the same roof at west side by fire rated construction due to unprotected opening.	Separate each floor by fire rated construction as per BNBC-2020, Part-3, Chapter 3 and Table 3.3.1 & Table-4.1.1 of the RSC Technical Guideline Standard V1.	Within 3 Months
 				

F-28	Fire Alarm & Detection System (FADS)	It was observed that An addressable automatic fire alarm & detection system (Brand: Honeywell & Model: FlexES-Fx18) has been installed. One fire alarm control panel (Honeywell) is share Old ID-12214 & New ID-26398. Total loop 11nos. Loop 1 to Loop 6 are share Old ID-12214 and Loop 7 to Loop 11 are share New ID-26398. 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): All Buildings of the IDs.	Option-1: Separate the fire alarm control panel for New RSC ID-26398 of the all structure and Submit the fire alarm & detection system design only ID-26398 for initial review. Option-2: If the both IDs(12214 & 26398) share one fire alarm control panel, then Submit the fire alarm and detection system initial design both IDs combinedly. 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
				
F-29	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.	Within 1 Month after installation.

F-30	Fire Suppression System (SUPS)	The factory has installed a standpipe & Hose system that requires a detailed review to confirm compliance with NFPA 14,20, 24 and RSC Technical Guidelines (Standard). Location: Garments Building-2.	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, 20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 Months and modification/ installation with 4 Months
				
F-31	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: Garments Building-2.	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-32	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.	Within 1 Month after installation.
F-33	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.	Within 1 Month
F-34	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-35	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-36	Inspection, Testing & Maintenance (Fire)	The required no smoking signs are not present in the factory.	Smoking is prohibited in any Garments 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-37	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