

INITIAL FIRE SAFETY INSPECTION REPORT

M.N. Dyeing, Printing & Washing Mills Ltd

RSC ID: 24867

ADDRESS: Baniarchala, Bhabanipur, Gazipur sadar, Gazipur

Other Factories: Mosharaf Apparels Studio Ltd.(ID-24194)(In this premise)



Inspected By: Mohammad Anayet Hossain & Md. Anisuzzaman

Date: 24th September 2023

Fire Safety Inspection Report

M.N. Dyeing, Printing & Washing Mills Ltd

Introduction:

M.N. Dyeing, Printing & Washing Mills Ltd; complex was surveyed for fire safety on **24/09/2023** 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): Factory Building name(s): There are 18 structure under this ID-24867 which are below

1. Building-6: Six Storied printing building RCC Structure(Construction: Start Date : Mar-2017 to Sep-2020 & Occupied: Sep-2020, total area=3504SQM)
2. Building-4: 3 Storied fiber & yarn dyeing production RCC with steel structure(Construction: Start Date : 10/ 2017 to 10/ 2020 & Occupied: 10/2020, total area=6044SQM)
3. Building-3: Two Storied Utility RCC (Construction: Start Date : 10/ 2017 to 1/ 2020 & Occupied: 1/2020, total area=716SQM)
4. Building-5: Single storied ETP RCC(Construction: Start Date :01/ 2017 to 1/ 2018 & Occupied: 9/2020, total area=3011 SQM)
5. Building-7: Two storied cark parking & dining building RCC (Construction: Aug-2021 to Aug-2022 & Occupied:Aug-2022, total area=498SQM)
6. Shed-1: Diesel Station shed steel structure(Construction: Aug-2017 to Dec-2017 , total area=102 SQM)
7. Shed-2: Single storied sludge storage steel structure (Construction: May-2020 to Aug-2020, total area=11SQM)
8. Shed-3: Single storied Screen Wash Shed steel structure(Construction: May-2020 to Aug-2020, total area=64SQM)
9. Shed-4: Single storied Maintenance Workshop Shed steel structure(Construction: Oct-2021 to Feb-2022, total area=166SQM)
10. Shed-5: Single storied Printing Fabric Store Shed steel structure(Construction: June 2021 to Jan 2022, total area=856SQM)
11. Shed-6: Single storied Printing production Shed with Mezzanine Steel structure(Construction: Mar 2017 to May 2020, Occupied Sep 2020, total area=6361SQM)
12. Shed-7: Single storied Weight Scale Room Shed(Construction: Jan 2021 to April 2021, total area=7SQM)
13. Shed-8: Single storied bonded Warehouse steel structure(Construction: Jun 2020 to Nov 2020, total area=2663SQM)
14. Shed-9: Single storied Cathodic Protection (CP) Room RCC (Construction: Oct-2020 to Dec 2020, total area= 14 SQM)
15. Shed-10: Single storied Regulating & Metering Station (RMS) Room RCC (Construction:Jan-2020 to Nov 2020)
16. Shed-11: Single storied Market Area & Fire Control Room Shed steel (Construction: Jan 2021 to Oct 2021, total area=366SQM)
17. Shed-12: Single storied Garments Printing Sub-station Shed steel (Construction: Feb 2021 to Oct 2021, total area=103 SQM)
18. Shed-13: Two storied Garments Printing production shed steel structure(Construction: Sep 2020 to Oct 2021, Occupied 2021 & total area=4460SQM)

Factory Address: Baniarchala, Bhabanipur, Gazipur sadar, Gazipur

Findings & Recommendations :

Table 1-4 summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

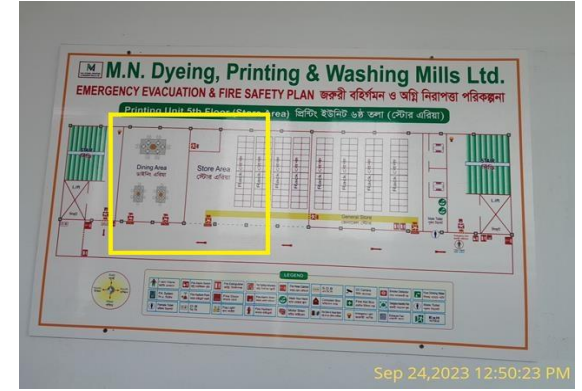
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval

Table-1: Finding & recommendation for 6 storied printing building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical BBT riser & sewage line of 6 storied printing building.	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 datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months



F-2	Fire rated construction	The Dining area is not separated by fire rated construction with the adjacent production occupancies(present storage) Location: 5th floor of 6 storied printing building	Separate the dining area from production & other occupancies(present storage) by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs of the same resistance rating.	Within 3 months
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F-3	Fire Rated Construction	Elevator shafts are directly open into the inside of exit enclosure. Location: both exit stair of 6 storied printing building.	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure. So, ensure the lift shaft is 2-hr fire rated including opening protection with similar rating.	Within 3 months
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F-4	Fire Rated Construction	6 Storied printing building is not separated from printing production shed by fire rated construction due to openings/penetrations.	Separate the 6 storied printing building warehouse building and single storied printing production is fire separated by minimum 2-hr fire rated construction.	Within 3 months
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F-5	Fire Rated Construction	Transformer room is not separated by fire rated construction. Location: Ground floor of printing production shed & substation room beside of fiber & dyeing building.	Transformer 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.	Within 3 months
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F-6	Fire Rated Construction	Combustible construction material has been used in the building. Location: 6 storied printing building.	Remove all combustible construction materials (Wooden wall, ceiling and doors) in the building and replace by non combustible materials.	Within 3 months
				

F-7	Mean of Egress	The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction due to unprotected opening & penetration Location: 6 storied printing building.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 90 minutes opening protection. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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. 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 as per RSC Technical Guideline (Standard) V1-6.14.4 .	Within 3 months
  				

F-8	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations.	Provide stair designation sign & exit 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.	Within 1 month
F-9	Means of Egress	Building did not have occupant load signs at required locations.	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.	Within 1 month
F-10	Mean of Egress	Updated fire evacuation maps is 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-11	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: 6 storied printing building	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.	Within 1 month

F-12	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: 6 storied printing building.	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-13	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).



F-14	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 month after modification(If require).
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F-15	Fire Protection System(Standpipe	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24 or as per RSC standard.	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 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 Review within 1 month and modification within 3 months (If require).
  				

F-16	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
F-17	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
F-18	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. Location: all building.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 3 months

Table-2: Finding & recommendation for 3 storied fiber & yarn dyeing building.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-19	Fire rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical BBT riser 3 storied fiber & yarn dyeing.	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 datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
 				

F-20	Fire Rated Construction	The constructed building is steel construction which appears to be nonrated and were found in exposed condition. Location: 3 storied fiber & dyeing shed.	The building is a new steel structure which shall be type-I or II construction. So, provide require fire rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference. Note: J occupancy (Chemical Store) shall be type-I construction.	Within 6 months
				
F-21	Fire Rated Construction	Elevator shafts are directly open into the production floor without proper fire separation. Location: 3 storied fiber & yarn dyeing building.	Ensure minimum 2-hr listed/3rd part certified fire rated lift landing doors for elevator shafts otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.	Within 3 months

				
F-22	Fire Rated Construction	Existing atrium in factory connecting ground floor to roof is not properly protected Location: 3 storied fiber & yarn dyeing building. Location: 3 storied fiber & yarn dyeing building.	Provide proper fire protection in accordance with the RSC standard 3.7	Within 3 months
 				

F-23	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Several floor of 3 storied fiber & yarn dyeing building.	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. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) from other storage areas 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-24	Mean of Egress	The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction due to installed fire doors non-functional. Location: 3storied fiber & yarn dyeing building.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 90 minutes opening protection. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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. 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 as per RSC Technical Guideline (Standard) V1-6.14.4 .	Within 3 months
				

F-25	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations. Location: 3 storied fiber & yarn dyeing building.	Provide stair designation sign & exit 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.	Within 1 month
F-26	Means of Egress	Building did not have occupant load signs at required locations. Location: 3 storied fiber & yarn dyeing building.	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.	Within 1 month
F-27	Mean of Egress	Updated fire evacuation maps is not posted at the entrance of all exit stair. Location: 3 storied fiber & yarn dyeing building.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-28	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: 3 storied fiber & yarn dyeing building.	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.	Within 1 month

F-29	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: 3 storied fiber & yarn dyeing building.	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
F30	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. Location: 3 storied fiber & yarn dyeing building.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).

F-31	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. Location: 3 storied fiber & yarn dyeing building.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 month after modification(If require).
F-32	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24 or as per RSC standard. Location: 3 storied fiber & yarn dyeing building.	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 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 Review within 1 month and modification within 3 months (If require).
F-33	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).

F-34	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
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Table-3: Finding & recommendation for 3 storied fiber & yarn dyeing building.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-35	Fire Rated Construction	The constructed building is steel construction which appears to be nonrated and were found in exposed condition. Location: Single storied printing production shed & Single storied bonded warehouse shed	The building is a new steel structure which shall be type-I or II construction. So, provide require fire rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference. Note: J occupancy (Chemical Store) shall be type-I construction.	Within 6months
 				

F-36	Fire Rated Construction	Chemical storage area is not properly separated from printing production shed by fire-rated construction. Location: Single storied printing production shed.	Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area. ** As per BNBC, chemical storage room will be Type-1 construction. Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.	Within 3 month
 				

F-37	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Single storied printing production shed.	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. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) from other storage areas 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 3months
				

F-38	Means of Egress	Building did not have occupant load signs at required locations. Location: Printing production shed, printing fabric store shed & bonded warehouse (chemical shed)	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.	Within 1 month
F-39	Means of Egress	Common path of egress travel was more than 8 m for chemical store. Location: Single storied bonded warehouse(Chemical shed)	Reconfigure the egress arrangement so that the maximum common path of travel for group J(high hazard) occupancies shall not exceed 8m (25ft).	Within 3 months
F-40	Mean of Egress	Updated fire evacuation maps is not posted at the entrance of all exit stair. Location: Printing production shed, printing fabric store shed & bonded warehouse (chemical shed)	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-41	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Printing production shed, printing fabric store shed & bonded warehouse (chemical shed)	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.	Within 1 month

F-42	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Printing production shed, printing fabric store shed & bonded warehouse (chemical shed)	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-43	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. Location: Printing production shed, printing fabric store shed & bonded warehouse (chemical shed)	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).
F-44	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 month after modification(If require).

Table-4: Finding & recommendation for Two storied garment printing production shed-13 & all other structure

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-45	Fire Rated Construction	The constructed building is steel construction which appears to be nonrated and were found in exposed condition. Location: Two storied garments printing production shed. Also Shed-1,Shed-2,Shed-3	The building is a new steel structure which shall be type-I or II construction. So, provide require fire rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
				

6	Mean of Egress	The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction. Location: Two storied garment printing production shed	The exit stair enclosure shall be provided with a minimum of 1- hr. fire resistance rating with 60 minutes opening protection. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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.	Within 3 months
				

F-46	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations. Location: Garment printing production shed	Provide stair designation sign & exit 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.	Within 1 month
F-48	Mean of Egress	Updated fire evacuation maps is not posted at the entrance of all exit stair. Location: Garment printing production shed & building 3,5,7 and shed-1,2,3,4,7,9,10,11,12	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-49	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Two storied garment printing productions shed.	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.	Within 1 month
F-50	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Garment printing production shed & building 3,5,7 and shed-1,2,3,4,7,9,10,11,12	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-51	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. Location: Two Garment printing production shed & building 3,5,7 and shed-1,2,3,4,7,9,10,11,12	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).
F-52	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. Location: Garment printing production shed & building 3,5,7 and shed-1,2,3,4,7,9,10,11,12	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 month after modification(If require).