

INITIAL FIRE SAFETY INSPECTION REPORT

SAIHAM KNIT COMPOSITE LTD. (Extension Area)

Factory ID: 24022

ADDRESS: Saiham Nagar, Noyapara, Madhabpur, Hobigonj
(24.183191,91.354666)

Other Factories: None



Inspected By: Dilip Kumar Mondal and Md. Anisuzzaman

Date: 25 February and 02 June 2021

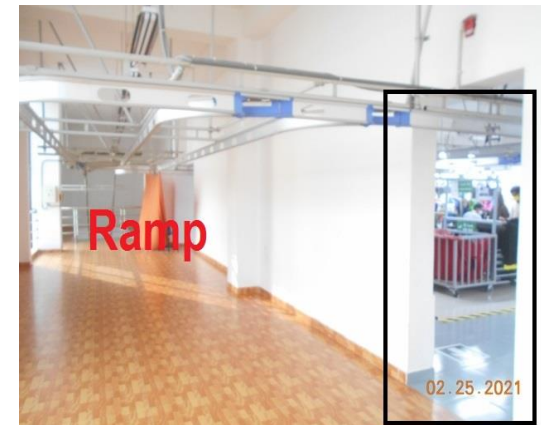
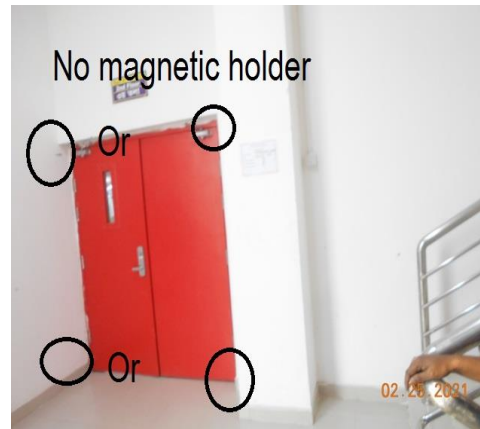
Findings & Recommendations :

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 approval.

Table-1, Building-1 (Special-RCC),B-2,B-3,B-4,B-5,B-6,B-7,B-8,B-9,B-10,B-11 ,B-12,B-13 and B-14.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire-Rated Construction	The exit stairs are separated from work areas & other spaces on each floor by fire rated construction and fire door except ramp, one opening at stair-4,non rated glass from machine room to stair-5 on ground floor (building-1). Also magnetic door holders were missed installed door (building-1,3 & 4)	Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5 -hr. fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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

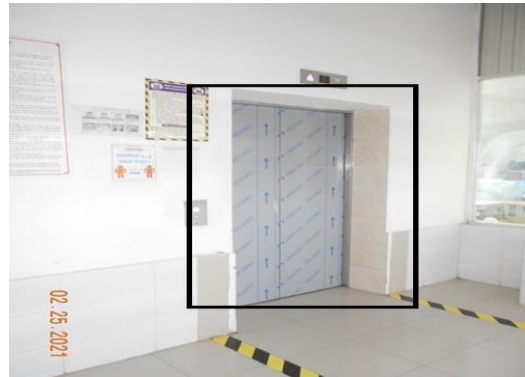
RSC - Bangladesh RMG Fire Safety Inspection



F-2	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction. Location: Fabric storage on ground floor of the South side (building-1)	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23 m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93 m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
-----	-------------------------	---	---	-----------------

RSC - Bangladesh RMG Fire Safety Inspection



F-3	Fire Rated Construction	Elevator is discharge inside the each production floor. Location: South side of the building-1.	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	Within 3 months
				

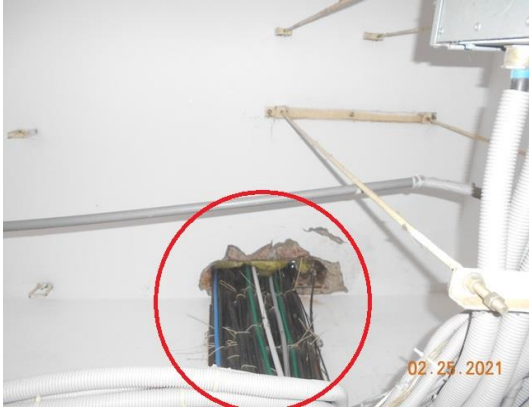
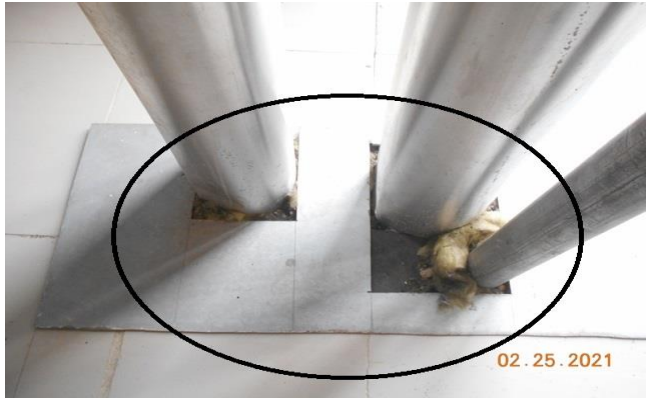
RSC - Bangladesh RMG Fire Safety Inspection

F-4	Fire-Rated Construction	Areas used (in-process storage) for combustible materials are open to the surrounding occupancy. Location: Ground and 1st floor of building-1 and B-4.	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 fire rated hour construction.	Within 3 months
 				

RSC - Bangladesh RMG Fire Safety Inspection

F-5	Fire-Rated Construction	Connecting bridge between Building -1(Special) and Building -12(SSL central warehouse) were observed without proper fire separation.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the buildings from work areas and other building spaces on all floor levels. 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
 				

RSC - Bangladesh RMG Fire Safety Inspection

F-6	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Location: Boiler pipe & electrical riser in the East & North side and Opening on South side from 2nd to 1st floor (building-1).	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level. Seal all penetrations and openings in floors/ceiling assemblies to maintain the fire separation.	Within 3 months
 				
F-7	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures. Location: stair-4 of building-4.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months

RSC - Bangladesh RMG Fire Safety Inspection



F-8	Fire Rated Construction	Exterior exit stairs are not properly separated from the building and stair exit discharge. Location: Stair-1 of building-6 and building-9.	Exterior exit stairs shall be separated from the building with a rating requirement of 2 hr. fire rating for 4 or more stories. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	Within 3 months
-----	-------------------------	--	---	-----------------

RSC - Bangladesh RMG Fire Safety Inspection

				
F-9	Fire-Rated Construction	The exit discharge path is less than 10ft. wide and is not separated from the suction machine room (the West exit on building-1) and building interior glass window (the East exit of the building-4 at stair-3) and south side of building 5(printing)	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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 6 months
				
				

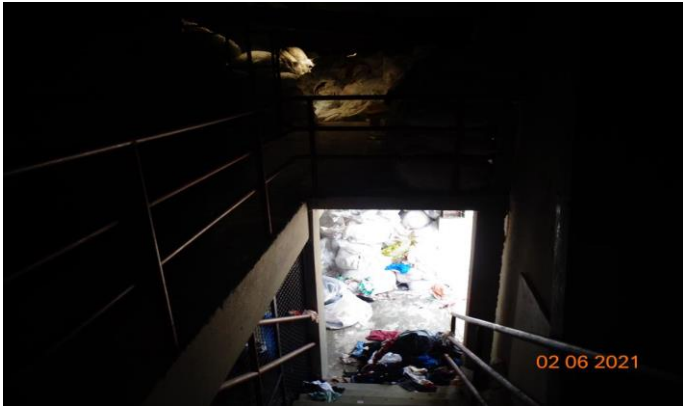
RSC - Bangladesh RMG Fire Safety Inspection

F-10	Fire Rated Construction	SSL canteen/Dining room are not proper fire separated from wastage storage by fire rated construction due to unprotected opening & penetration. Location: Building-13(SSL canteen/Dining and wastage room)	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
				

RSC - Bangladesh RMG Fire Safety Inspection

F-11	Fire Rated Construction	Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings. Location : Location of building 05(printing & embroidery 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.	Within 3 months
 				

RSC - Bangladesh RMG Fire Safety Inspection

F-12	Fire Rated Construction	Exit stair(s) is discharge inside the ground floor storage area in the building 11. Location: Building11(wastage godown)	1. Modify stair to discharge directly outside. Or 2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or 3. Provide sprinkler protection for discharge floor in accordance with NFPA 13.	Within 3 months
 				

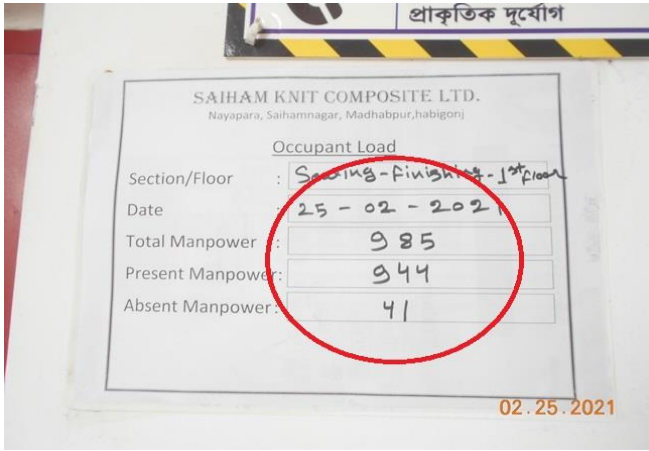
RSC - Bangladesh RMG Fire Safety Inspection

F-13	Fire Rated Construction	The building is classified as a new and non-rated structure where all the structure elements were exposed with any fire protection which is a violation of Accord standard 3.5. Location: Buildings 02,04,07 and 12.	Construction of new building containing G and/or H2 occupancies (factories) shall be Type 1 or Type 2 construction as required in BNBC Part 3 Table 3.2.4. Provide/ensure required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC. Consult a qualified fire protection engineer to design the rated construction barriers in between floors and in structural members.	Within 6 months
				

RSC - Bangladesh RMG Fire Safety Inspection

F-14	Means of Egress	Aisles are not provide with a minimum unobstructed clear with of 36 in. Location: Building 2 & building 12.	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in).	within 1 month
------	-----------------	---	---	----------------

RSC - Bangladesh RMG Fire Safety Inspection

				
F-15	Mean of Egress	Exit capacity is not adequate for the occupant load. Location: 1st floor, occupant load was 985 (building-1).	Reduce occupant load to not more than available exit capacity (880). Or Provide additional exits to increase the exit capacity.	Immediately
				

RSC - Bangladesh RMG Fire Safety Inspection

F-16	Mean of Egress	Parapets or guards are not provided in occupied roof. OR Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.). Location: Building-3	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				
F-17	Mean of Egress	Handrails are not provided on both sides of each exit stairs on all floors. Having handrails on one side of said staircase, may pose as a falling hazard during evacuation. Location: Building -3 and building-6.	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.)	Within 3 months

RSC - Bangladesh RMG Fire Safety Inspection



F-18	Fire Detection and Alarm System	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. Location: B-1,B-2,B-3,B-4,B-5,B-6,B-7,B-8,B-9,B-10,B-11,B-12 ,B-13 and B-14.	Submit the as-built design of fire alarm system to RSC in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System.	Within 3 months
------	---------------------------------	--	--	-----------------

RSC - Bangladesh RMG Fire Safety Inspection



F-19	Fire Detection & Alarm ITM	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72	Within 1 month (after installation)
F-20	Fire Protection	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and ACCORD standards(Building-1).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Within 3 months

RSC - Bangladesh RMG Fire Safety Inspection



F-21	Fire-protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the Standpipe system and keep written records on- site, in accordance with NFPA 25.	Within 1 month (after installation)
F-22	Fire-protection	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Within 3 months

RSC - Bangladesh RMG Fire Safety Inspection



F-23	Fire-protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20.	Within 1 month (after installation)
F-24	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 and ACCORD standards.	Within 2 months
F-25	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: North side on ground floor building-1, B-2, B-5 and B-12.	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

RSC - Bangladesh RMG Fire Safety Inspection



F-26	Egress Lighting	Illuminated directional signs are not provided where direction of the path of travel to an exit has changed. Location: Several location of each floor of building- 1, B-2,B- 4 ,B-5 and B-12.	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
 				

RSC - Bangladesh RMG Fire Safety Inspection

F-27	Emergency Lighting ITM	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 2 months
------	---------------------------	--	--	-----------------