

INITIAL FIRE SAFETY INSPECTION REPORT

Farseeing Knit Composite Limited (Extension) _24857
RSC ID: 24857

Address: Faridpur, Telihati, Sreepur

Co-ordinate: 24.2646009418, 90.401818493

Other Factories: Farseeing Knit Composite Limited (ID: 9724)



Inspected By: Kazi Raian Mahmood , A N Faisal Ahmed

Date: 10-Jan-2024

Fire Safety Inspection Report

Farseeing Knit Composite Limited (Extension)

Introduction:

Farseeing Knit Composite Limited (Extension) complex was surveyed for fire safety on **10-Jan-2024** 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): The factory compound has a total nine (09) buildings. 06 nos buildings were covered under RSC ID : 9724. The remaining three (03) buildings are as below:

1. Building-1: Main Production Building ; RCC Construction.

Construction duration: February, 2019 to ongoing. Occupied: July, 2022. **(INTERIM CONSTRUCTION)**

2. Building 02: Generator & Sub-station; Single Storied RCC

Construction duration: Sep'2018 to Dec'2019. Occupied: April'22 **(INTERIM CONSTRUCTION)**

3. Building 03: Utility Boiler Building; Single Storied RCC

Construction duration: Mar'22 to May'22. Occupied: Aug'22 . **(NEW CONSTRUCTION)**

Factory Address: Faridpur, Telihati, Sreepur

Points of contact:

1. Name: Md. Ismail Hossain

Designation: General Manager

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2. Name: Sohel Ahammed

Designation: Manager, HR & Compliance

Contact No: +8809678771771

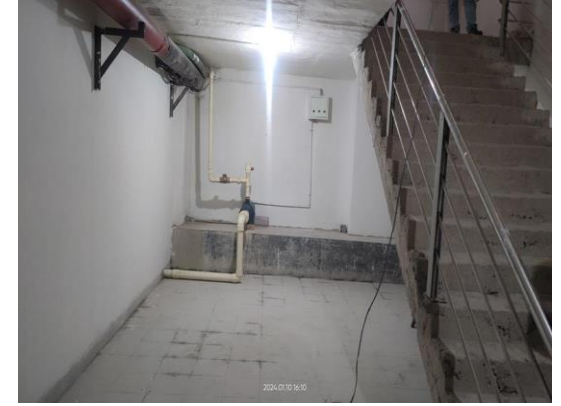
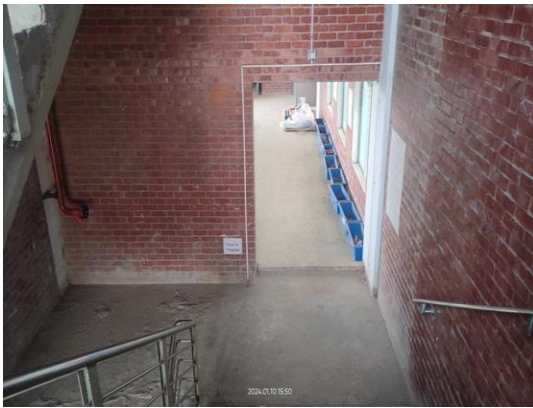
Email: farseeing@shangugroup.com

Findings & Recommendations :

Table 1 summarize 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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction due to non-functioning door accessories, unprotected opening, non-separated water pump. Location: Main Building	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr. construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets.	Within 3 months

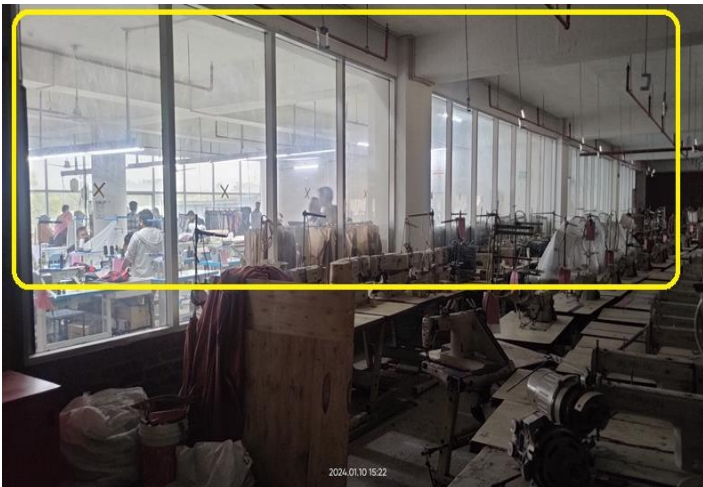


F-2	Fire Rated Construction	Storage room discharges directly into exit stair enclosure without vestibules. Location: Main Building	Openings from the exit enclosure to the storage room, shall be provided with a vestibule with fire-rated construction and openings. Provide a 1.5 hr. fire-rated door on the exit stair side and a 1 hr. fire-rated door on the store side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 months
				

F-3	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Sanitary pipes and Electrical Riser (Main Building)	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design.	Within 3 months
 				

F-4	Fire Rated Construction	The fire pump room is not provided with adequate fire separation due to unprotected penetration by sanitary pipes.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design.	Within 3 months
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F-5	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Main Building	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.	Within 3 Months
				

F-6	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction or not maintain as per standard. Location: Main Building	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m² (250 ft²) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²). -In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 3 Months
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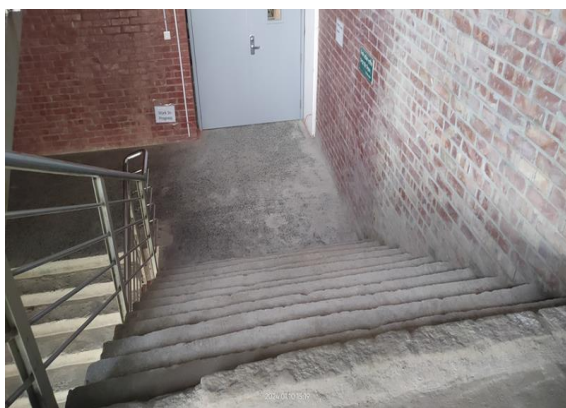
F-7	Fire Rated Construction	Office area are not fire separated from Loading-Unloading area & Production occupancy. Location: Main Building	Separate the Production area and office area by minimum 2-hr fire-rated construction from each other and Other occupancy. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction.	Within 3 Months
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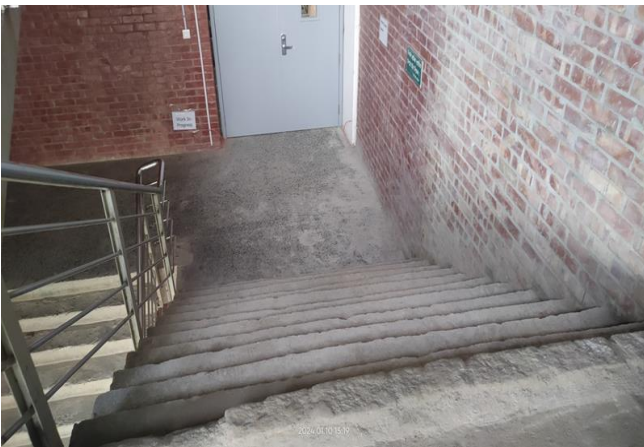
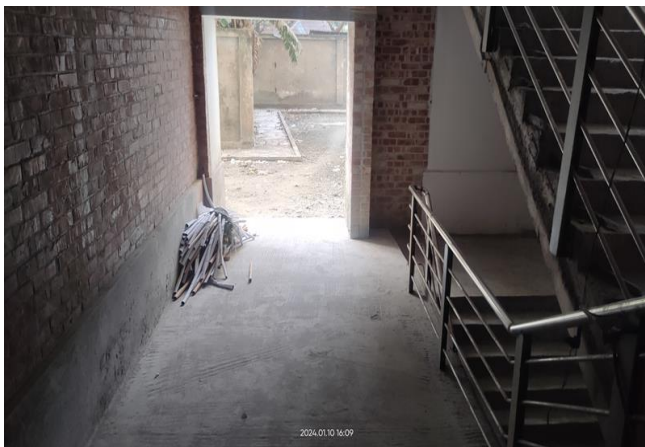


F-8	Fire Rated Construction	Prayer area is not separated from storage Area. Location: Main Building	Prayer area shall be separated from production area by minimum 3 Hr. rated separation. Seal and/or protect all openings to maintain the required fire separation. Also provide at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different direction.	Within 3 months
				

F-9	Fire Rated Construction	Compressor is not separated from Production occupancy & boiler room is not separated from combustible fuel storage (Jhute) by fire rated construction. Location: Main Building	Separate the compressor & boiler room by a minimum 1-hr fire-rated construction . Seal and/or protect all openings to maintain the required fire separations.	Within 3 Months
 				

F-10	Means of Egress	Stairway treads are not uniform (throughout the building) and exit discharge path of N-E, N-W, S-W exit stair are not even & usable for all weather condition. Location: Main Building	Remove the obstructions and Provide an even level walking surface in stair & exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard_V1.0).	Within 3 months
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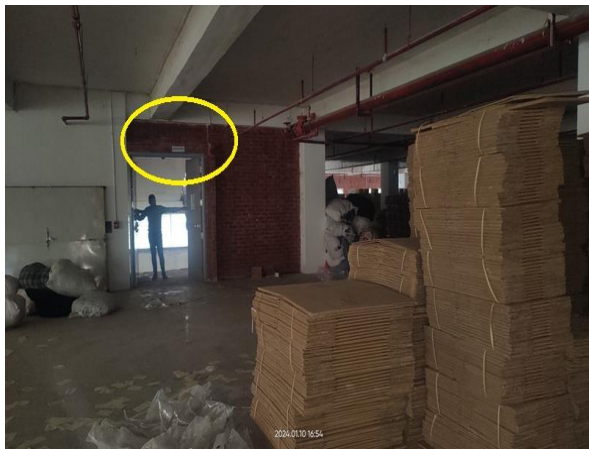
F-11	Means of Egress	Handrails are not provided on both sides of the exit stairs on all floors. Location: Main Building	RSC-6.12.1.2: New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) Intermediate rails or pattern shall be in a such way, that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 month
 				

F-12	Means of Egress	Guards are not provided floor on periphery of the floor . Location: Main Building	Guards shall provide as per RSC Technical Guidelines (StandardV1.0.) Section 6.12.2 to prevent falling hazard . Minimum guard height shall be 42 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.).	Within 1 month
 				

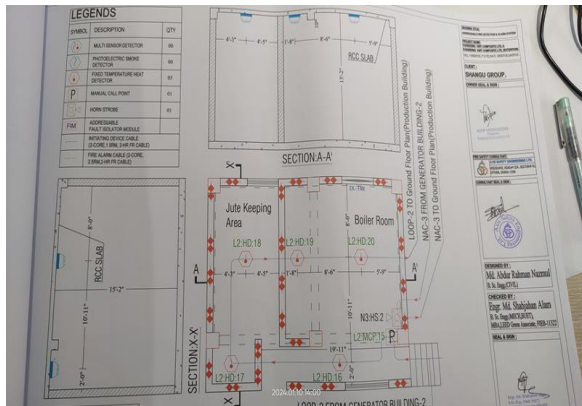
F-13	Means of Egress	Parapet has not been provided to some corners as construction is not completed yet. Location: Main Building	Provide parapets with a minimum height of 1067mm (42 inch.). Parapets that are constructed on rated exterior construction shall be of the same rating as the exterior wall rating in accordance with BNBC.	Within 3 months
				
F-14	Means of Egress	Building did not have stair designation, floor designation signs, occupant load sign & evacuation plans at the required locations on all floors. Location: Main Buildings	Provide stair designation, floor designation, occupant load sign & evacuation plans at required locations.	Within 1 month

F-15	Means of Egress	Directional Exit signage was not provided along the path of egress where there is a change in the direction for the path of travel and the direction to an exit is not obvious. Location: Main Buildings	Provide directional exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
				

F-16	Emergency Lighting	Emergency light weren't provided and adequate illumination levels are not anticipated along egress routes and at exit stairs. Location: All Buildings	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 1 month
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F-17	Emergency Lighting	Exit signage was not provided along a path of egress. This is typical on all floors. Location: All Buildings	Provide illuminated exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
 				

F-18	Human Element Program	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.	Within 1 month
F-19	Fire Alarm & Detection system	Automatic fire alarm and detection system is going on. FADS required a detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: All building.	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings 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. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design Review within 2 months and installation/modification within 4 months

				
F-20	Fire Alarm & Detection system (ITM of FADS)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site	Within 1 month (after installation)

F-21	Fire Protection System (Standpipe & Sprinkler)	A Sprinkler system which was found ongoing installation in the factory, is required to be reviewed and verified. Location: Main Building	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA- 13,14,20,22,24. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation/modification within 4 months
F-22	Fire Protection System (Standpipe)	A Standpipe system was found ongoing installation in the factory, which is required to be reviewed and verified. Location: Main Building	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14,20,22 and 24. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation/modification within 4 months
F-23	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation/modification)

F-24	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation/modification)
F-25	Fire Protection System(ITM of Sprinkler)	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system and keep written records on- site, in accordance with NFPA 25 and RSC standards.	Within 1 Month (after installation/modification)
F-26	ITM of Fire Extinguishers	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 onsite, in accordance with NFPA 10 and The RSC Technical Guidelines (Standard).	Within 1 month
F-27	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month