

INITIAL FIRE SAFETY INSPECTION REPORT

ALIB Composite Ltd. (Extension)

RSC ID: 24564

ADDRESS: Vannara, Mouchak, Kaliakoir, Gazipur.

Geographical Coordinates: 24.036474, 90.296663

Other Factories: ALIB Composite Ltd.(ID-23977)



Inspected By: Md. Anisuzzaman and Md. Najmul Huda

Date: 14th- November- 2023

Fire Safety Inspection Report

ALIB Composite Ltd. (Extension)

Introduction:

ALIB Composite Ltd. (Extension); complex was surveyed for fire safety on **14/11/2023** 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

There are three structures under this ID-24564 which are listed below:

1. Main Building, Two Storied Steel Structure (Construction: Nov-2020 to Dec-2021 & Occupied: Jan-2022, total area=3716 SQM, Design approved by LGED Kaliakoir, Gazipur / April 2020, Interim construction))
2. Utility Building, Two Storied RCC building (Construction: Nov-2020 to Dec-2021 & Occupied: Jan-2022, total area=286 SQM, Design approved by LGED Kaliakoir, Gazipur / April 2020, Interim construction)
3. Security Room, Single Storied RCC building (Construction: Dec-2022 to Feb-2023 & Occupied: March-2023, total area=56.4 SQM)

Factory Address: Vannara, Mouchak, Kaliakoir, Gazipur.

Points of contact:

1. Name: Md. Morshed Kamal

Designation: A.G.M (Admin & Hr)

Contact No: 0170392333

Email: admin@alibcompositeltd.com

2. Name: M. A. Matin

Designation: Chief Operating Officer

Contact No: 01712651084

Email: matin@alibcompositeltd.com

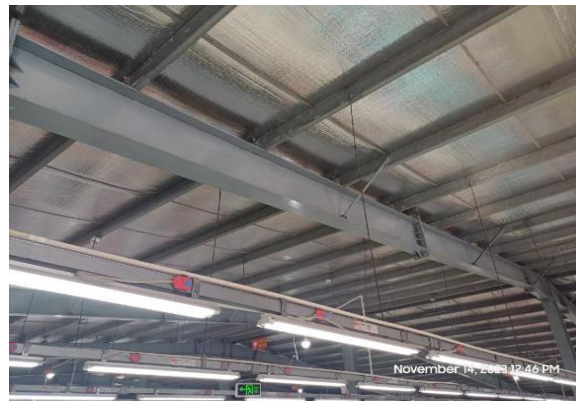
Findings & Recommendations :

Table 1- 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 & recommendations for all building.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire-Rated Construction	The main structural element of the building is constructed by steel element which is non-rated and were found in exposed condition without any fire protection. Location: Main Building	Interim building shall be type-1 or type-2 construction. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4.(2006). Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 6 months



F-2	Fire rated construction	Dedicated store room is not separated by fire rated construction due to non- rated door, opening & penetrations. Location: Ground Floor of main building.	Enclose the storage area from the surrounding occupancy with a minimum 1 hour fire rated construction.	Within 3months
 The first photograph shows a red fire door that is not fully closed, with a gap visible. The second photograph shows a storage area with bags on shelves and a red fire door. The third photograph shows a red fire door with a fire alarm pull station nearby.				
F-3	Fire Rated Construction	Dining area is not separated from other occupancies (Storage Area) due to unprotected opening (Non-rated steel column and beams) Location: Ground Floor of main building.	Separate the dining area from production & other occupancies(store) 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



F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location(s): Plumbing pipes, Electrical Cable at several locations of the main building & utility building	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 2-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
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F-5	Fire rated construction	The Generator & transformer, boiler & compressor room were not separated due to unprotected opening, penetrations & non functional fire door. Location: Ground Floor & first floor of the utility building	Separate the Generator , transformer , boiler & compressor room 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	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Combustible materials has kept under cutting table which is non compliant. Location: ground floor main production building.	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 Enclose the storage area from the surrounding occupancy with a minimum 1-hour construction.	Within 3 months
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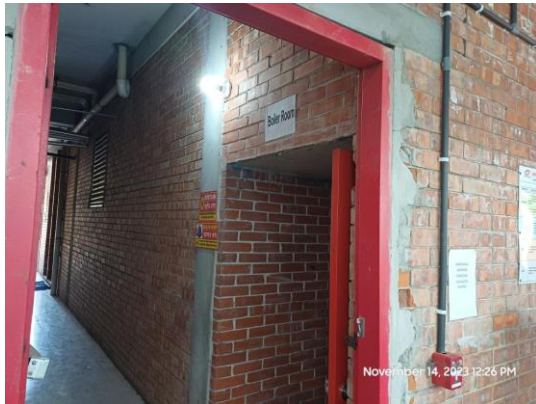
F-7	Means of Egress	Handrails are not provided on both sides of both exit stairs.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Rail guards shall be such patterned so that a sphere 200mm (8 in.) in diameter cannot pass through any opening up to a height of 865mm (34in.).	Within 3 month
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F-8	Means of Egress	Width of new exit stair is less than 1.5 m (60 in.). Location: Stair-03 of main building	Provide minimum clear and unobstructed exit stair widths of 1.5 m(60 in.) in accordance with RSC Technical Guideline (Standard) V1- 6.5.6.2.1	Within 3 months
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F-9	Means of Egress	The exit discharge path (passageway) is not properly protected due to power cable in the discharge passageway. Location: East side(near boiler, transformer) of main building.	Relocate the electrical power cables from the passageway ,Or protect the passageway from power cable by 1 hour fire rated construction.	Within 2 months
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F-10	Means of Egress	Exterior exit stairs are not properly separated from the building within 10 feet of stair-02 (W-S). Location: Stair-2(W-S) of main building.	Exterior exit stairs shall be separated from the building with a rating requirement of [1 hr. fire rating for 3 or fewer stories or 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 2 months
 				
F-11	Means of Egress	Aisles marking are not provided on the floor properly. Location: Ground floor, Cutting Section, B#1: Main Building.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month



F-12	Human Element Program	Fire Drills are not conducted at required intervals as per RSC Standard.	Fire drills shall be conducted on regular basis as per RSC Technical Guideline (Standard) V1 13.2	Within 3 months
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F-13	Means of Egress	Building did not have occupant load signs at the required locations.	Provide occupant load signs at the required locations.	Within 1 month
F-14	Human Element Program	"No Smoking" Sign has not been found on all factory floor.	Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules (1.6.3.7) Part 53 requires that smoking be prohibited. Signs shall be posted in Bengali and English at all building entrances. If an Owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs required in 13.5.2.	Within 1 month
F-15	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	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-16	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).
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F-17	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).
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.	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

F-19	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 3 months
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