

# INITIAL FIRE SAFETY INSPECTION REPORT

**Purbasha Composite Tex Ltd.**

**RSC ID: 24341**

**Ward No.04, Jamirdia, Hobirbari, Bhaluka, Mymensingh.**

**Other Factories: None**



**Inspected By: Mohammad Anayet Hossain.**

**Date: 21 March 2022**

# Fire Safety Inspection Report

Purbasha Composite Tex Ltd.

## Introduction:

RSC ID: 24341

Purbasha Composite Tex Ltd. complex was surveyed for fire safety on 21/03/2022 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):** There are total 4 structures under this ID. The name of the structures are as:

1. Shed-1 (Factory Building-Single storied steel shed building with mezzanine),
2. Shed-2 (Compliance building),
3. Utility building (Single stored RCC building),
4. Security building (Two storied RCC Building).

**Factory Address:** Ward No.04, Jamirdia, Hobirbari, Bhaluka, Mymensingh.


## Findings & Recommendations :

Purbasha Composite Tex Ltd.

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:**

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition. Locations: Shed-1 (Factory building), Shed-2 (Compliance building).	The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4	Within 9 months
				


F-2	Fire Rated Construction	<p>Areas used for combustible storage at several floors open to the factory are not separated by fire rated construction. Location: Shed-1 (Factory building)</p>	<p>Provide defined storage areas and limit the storage arrangement as follows:          - Maximum height of 2.45m (8ft.) and maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>).          - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m<sup>2</sup> (1,000 ft<sup>2</sup>).          Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).</p>	Within 3 months
				
F-3	Fire Rated Construction	<p>Room used for combustible storage are not separated by fire rated construction. Locations: Shed-1 (Factory building), Shed-2 (Compliance building).</p>	<p>Separate the storage room by a minimum 1- hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.</p>	Within 3 months
				



F-4	Fire Rated Construction	Dining room is not properly fire separated from other occupancy(Combustible storage room ) by fire rated construction. Location: Shed-2 (Compliance building).	Separate the dining area by a minimum 2-hr fire rated construction having a direct access to exit. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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F-5	Fire Rated Construction	Liquefied or compressed gas cylinders are located within the factory. Location: Utility building.	<p>The Accord/RSC Standard 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building.</p> <p>LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions.</p> <ol style="list-style-type: none"> <li>1. The storage building must be at least 3 meters away from any other building and boundaries.</li> <li>2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction.</li> <li>3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours.</li> <li>4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders.</li> <li>5. The building must be mechanically ventilated to control the accumulation of flammable vapors.</li> <li>6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, CIOB and all other applicable agencies, codes, and standards.</li> </ol>	Within 3 months
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F-6	Means of egress	Width of aisles is less than 0.9m (36-in.). Location: Shed-1 (Factory building).	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months
				
F-7	Fire Alarm & Detection System (FADS)	No fire alarm system available during inspection.	Provided automatic addressable listed fire alarm system in accordance with NFPA 72 and ACCORD/RSC standards.	Design Review within 2 months and installation within 4 months.
F-8	Fire Alarm & Detection System (FADS)	Visible and audible notification was not provided for the building in accordance with NFPA 72.	Provide visible and audible notification for the building in accordance with NFPA 72.	Design Review within 2 months and installation within 4 months.

				
F-9	Fire Alarm & Detection System (FADS)	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72 and ACCORD/RSC standards.	Within 3 months
				
F-10	Inspection, testing, and maintenance (FADS)	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-11	Occupant Load sign	Building did not have occupant load signs at the required locations.	Provide occupant load signs at the required locations.	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.	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 1 month
F-13	Egress Lighting	Exit signage not illuminated (burned out, broken, etc.).	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs	Within 1 month
F-14	Inspection, testing, and maintenance	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with NFPA 10.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with NFPA 10. Keep written records on-site.	Within 1 month