

# INITIAL FIRE SAFETY INSPECTION REPORT

## J.K. KNIT COMPOSITE LIMITED (EXTENSION)

RSC ID: 24173

10/1, South Dariapur, Savar, Dhaka-1340, Bangladesh.

Other Factories: Tanima Knit Composite Ltd (10436). & J. K. Knit Composite (9309).



Inspected By: Pantha Pallob Das & Nainin Nowrose

Date: 09 June 2021

# Fire Safety Inspection Report

Factory Name: J.K. KNIT COMPOSITE LIMITED (EXTENSION)

## Introduction:

J.K. KNIT COMPOSITE LIMITED (EXTENSION) complex was surveyed for fire safety on **09/06/2021** 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 5 buildings and 5 sheds in this factory premises under 3 different IDs (9309, 10436, new-24173). Among those 1 building and 4 sheds are included under this inspection scope under new ID (24173). These buildings are mentioned below:

1. ~~B~~-6 (Utility building): This is a 3 storied RCC building adjacent to Shed-1, which is covered in previous follow up inspections under ID: 9309.
2. ~~A~~ll Over Print Shed (AOP): Single storied prefabricated shed.
3. ~~S~~hed-2: Single storied shed which is connected with B-3 and covered in previous FUI.
4. ~~V~~astage Shed: Single storied shed.
5. ~~W~~orkshop: Single storied shed.

There is another under construction building titled as B-9: G+4. This is not eligible for this initial inspection as it is only constructed up to foundation.

## Findings & Recommendations :

Table 1 summarizes the non-compliant 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:**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	<p>The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p> <p><b>Location:</b> All over Print shed (AOP).</p>	<p>Construction of new non high rise building containing G and/or H 2 occupancies shall be Type 1 or Type 2 construction as required in BNBC Part 2 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.</p>	Within 6 months



F-2	Fire Rated Construction	Areas used for combustible storage open to the floor are not properly defined and not within limits. <b>Location:</b> All over Print shed (AOP)	<p>Provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>-Maximum height of 2.45m (8 ft) and maximum area of 23 m<sup>2</sup> (250 ft<sup>2</sup>).</li> <li>-If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m<sup>2</sup> (1000 ft<sup>2</sup>).</li> </ul> <p>Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).</p>	Within 3 months
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F-3	Fire Alarm & Detection system (FADS)	The addressable fire detection and alarm system is installed for the shed during inspection. The fire alarm system installation require detailed review to compliance with NFPA 72 and standard.	Design & Installation of Fire Alarm system shall be in accordance with ACCORD standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. 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 submission within 1 month and installation modification within 3 months (If required).
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F-4	ITM of Fire Alarm & Detection system (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.
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