

# INITIAL FIRE SAFETY INSPECTION REPORT

**Ratool Apparels Ltd. (Extension 2)**

**RSC ID: 24733**

**ADDRESS: Anser Road, Vagnahati, Sreepur, Gazipur**

**Other Factories: Ratool Apparels Ltd (ID-10829), Ratool Apparels Ltd. (Extension Sheds)(ID-24223)**



**Inspected By: Md. Anisuzzaman & Kazi Raian Mahmood**

**Date: 09th-November- 2023**

# Fire Safety Inspection Report

## Ratool Apparels Ltd. (Extension 2)

### Introduction:

**Ratool Apparels Ltd. (Extension 2)**; complex was surveyed for fire safety on **09/11/2023** 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

Factory Building name(s):

There are two structure under this ID-24733 which are listed below:

1. 3 Storied Building-5(Main production building), RCC Structure(Construction: August-2021 to Feb-2023 & Occupied: April-2023,Per floor area=14500 SQ FT, Sreepur Municipality , Sreepur, Gazipur / Oct 2022, New construction)

2. Building-4 (compressor room) RCC Structure.(Construction: August-2021 to Feb-2023 & Occupied: April-2023,Per floor area=1361 SQ FT, Sreepur Municipality , Sreepur, Gazipur / Oct 2022, New construction)

**Factory Address: Anser Road, Vagnahati, Sreepur, Gazipur**

### Points of contact:

1. Name: K.M. Khaledum Nabi  
Designation: DGM of HR, Admin & Compliance  
Contact No: 01700702441  
Email: hr@ratooolapparels.com


2. Name: Md. Akram Khan  
Designation: Asst, Manager(Admin, HR & compliance)  
Contact No: 01700702405  
Email: hr1@rattolapparels.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 & recommendation for all building**


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.</p> <p><b>Location:</b> Toilet area, 1st and ground floor of main production building</p>	<p>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.</p> <p>Or</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3months
				

F-2	Fire Rated Construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p><b>Location:</b> 2nd, 1st and ground floor of main production building.</p>	<p>Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m<sup>2</sup> and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft<sup>2</sup> (93 m<sup>2</sup>) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft<sup>2</sup> (372 m<sup>2</sup>) of the sprinklered area, whichever is greater.</p> <p>or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction</p>	Within 3 months
-----	-------------------------	---	---	-----------------



F-3	Fire Rated Construction	Chemical store room is not properly separated due to unprotected opening & penetrations. Location: Near to compressor shed.	<p>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.</p> <p>** As per BNBC, chemical storage room will be Type 1 construction. Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.</p>	Within 3 months
-----	-------------------------	--	--	-----------------



F-4	Mean of Egress	<p>The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction as the installed fire doors are partially assembled or non-functional.</p> <p><b>Location:</b> 3 storied main production building</p>	<p>The exit stair enclosure shall be provided with a minimum of 1- hr. fire resistance rating with 60 minutes opening protection.</p> <p>The clearance under the bottom of a fire door shall be a maximum of 19mm.</p> <p>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.</p>	Within 3 months
				
F-5	Means of Egress	<p>Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch).</p> <p>Location: Roof floor of main production building</p>	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



F-6	Means of Egress	Stair width was found less than 60 inches. Location: Stair-1 of main production building.	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with as per RSC Technical guideline standard V1 6.5.6.2.1.	Within 3 months
-----	-----------------	--	--	-----------------



F-7	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations.	Provide stair designation sign & exit designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
F-8	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: 3 storied main production building.	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-9	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: 3 storied Main Production Building	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 3 months
F-10	Egress lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units. Location: 3 storied Main production building	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1month



F-11	Fire Alarm & Detection System (FADS)	<p>Addressable fire alarm &amp; detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.</p> <p>Location:</p>	<p>Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection &amp; alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.</p>	<p>Design Review within 1 month and modification within 3 months (If require).</p>
------	--------------------------------------	--	---	--



F-12	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-13	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