

# FIRE SAFETY INSPECTION REPORT

**Factory Name: Natural Woolwear Ltd.**

**ACCORD ID: 12757**

**ADDRESS: 49/3, Bangabandhu Road, Charabag, Gouripur, Ashulia.**

**Other Factories: None**



**Inspected By: Mah mudur Rahman & Mahfuza Khanom**

**Date: 27th August, 2017**

# Fire Safety Inspection Report

**Factory Name: Natural Woolwear Ltd.**

## **Introduction:**

Natural Woolwear Ltd. was surveyed for fire safety on 27/08/2017 by The Accord 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 Accord. 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 Accord 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

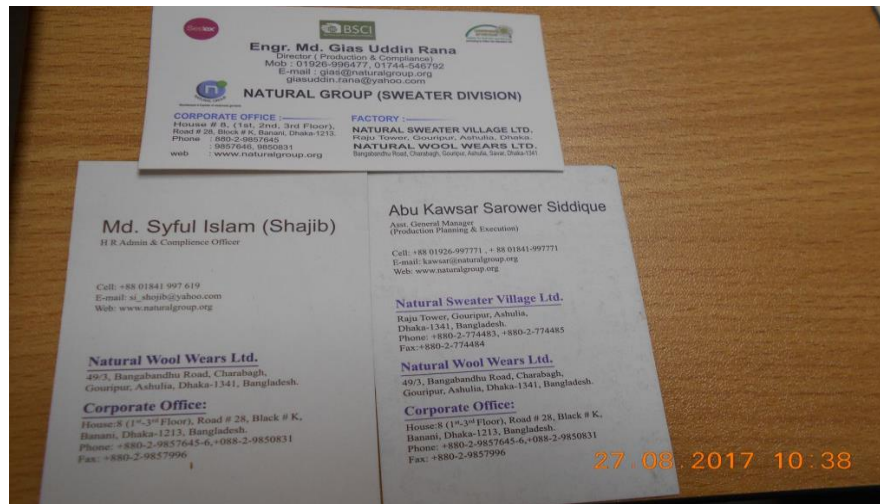
**Factory Building name(s): Natural Woolwear Ltd.**

**Factory Address: 49/3, Bangabandhu Road, Charabag, Gouripur, Ashulia**

### Points of contact:

Name: Engr. Md. Gias Uddin Rana  
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 Email: [gias@naturalgroup.org](mailto:gias@naturalgroup.org)

Name: Md. Syful Islam (Sajib)  
 Designation: H R Admin & Compliance Officer  
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## Findings & Recommendations :

The following "Table" summarizes the major 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 Accord for approval.

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	<b>Fire Rated Construction</b>	Exit stairs are not completely separated from other occupancy by fire rated assemblies. Fire door has not been installed in few locations. Installed fire doors were open by non-mechanical means <b>(without automatic-closing devices tied to the fire alarm system)</b> . <b>Location: Buiding-1,2 &amp; 3.</b>	Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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. 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. The rating of the exterior wall shall extend 3.05 m (10 ft.) beyond the ends of the stair structure.	<b>Within 3 months</b>





SI No.	Category	Findings	Required Action	Remediation Time Frame
				
2	<b>Fire Rated Construction</b>	Unsealed penetrations and openings are located in exit stair enclosures.	Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	<b>Within 3 months</b>




SI No.	Category	Findings	Required Action	Remediation Time Frame
				
3	<b>Fire Rated Construction</b>	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas. <b>Location: Building-2.</b>	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	<b>Within 3 months</b>



SI No.	Category	Findings	Required Action	Remediation Time Frame
				
4	<b>Fire Rated Construction</b>	<p>Boiler, Generator, Compressor and Transformer room in the utility building are not separated by fire rated construction (openings, non-rated doors, penetrations) and from each other by fire rated construction.</p> <p><b>Location: Utility building (1st floor &amp; Ground floor).</b></p>	<p>All the utility room shall be separated from other occupancy and each other by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p>	<b>Within 3 months</b>



SI No.	Category	Findings	Required Action	Remediation Time Frame
				
5	<b>Fire Rated Construction</b>	<p>The factory is using/storing liquefied gas cylinders without proper separations.  <b>Location: Near Building-2 &amp; utility building.</b></p>	<p>Remove them from the factory building.  or  Provide 2-hr rated room for using/storing liquefied gas cylinders and ensure proper ventilation of that room. Source of fire such as electrical connection is prohibited.</p>	<b>Within 3 months</b>



SI No.	Category	Findings	Required Action	Remediation Time Frame
				
6	<b>Fire Rated Construction</b>	Penetrations through floor/ceiling assemblies are found unsealed.	Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	<b>Within 3 months</b>





SI No.	Category	Findings	Required Action	Remediation Time Frame
				



SI No.	Category	Findings	Required Action	Remediation Time Frame
7	<b>Fire Rated Construction</b>	Areas used for in-process storage of combustible materials are open to the surrounding occupancy.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m<sup>2</sup></li> <li>- If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup></li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	<b>Within 3 months</b>





SI No.	Category	Findings	Required Action	Remediation Time Frame
				
8	<b>Fire Rated Construction</b>	Unsealed elevator shafts are located inside the working place at floors of Building-1.	<p>Provide a minimum 2-hr fire rated construction to separate the elevator shaft from each floor level.</p> <p>Seal all penetrations and openings in floors/ceiling assemblies to maintain the fire separation.</p>	<b>Within 3 months</b>





SI No.	Category	Findings	Required Action	Remediation Time Frame
		 <p>27-08-2017 12:00</p>		





SI No.	Category	Findings	Required Action	Remediation Time Frame
9	Egress	Doors along means of egress are provided with non compliant locking system.	<ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.</li> </ol>	Immediate
 <p>27.08.2017 12:41</p>		 <p>27.08.2017 12:55</p>		




SI No.	Category	Findings	Required Action	Remediation Time Frame
10	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Immediate
				





SI No.	Category	Findings	Required Action	Remediation Time Frame
11	Egress	Handrails are not provided in the exit stair. <b>Location: All the buildings.</b>	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.).	<b>Within 3 months</b>
				




SI No.	Category	Findings	Required Action	Remediation Time Frame
12	Egress	Parapets or guards are not provide in Occupiable roof.	Provide parapets or guards with a minimum height of 1067mm (42 in.).	Within 3 months
				



SI No.	Category	Findings	Required Action	Remediation Time Frame
13	Egress	Electrical panel (DB) was located in exit stair.	Remove all electrical panel or board from exit s	Within 1 month
				



SI No.	Category	Findings	Required Action	Remediation Time Frame
14	<b>Fire Detection and Alarm System</b>	The fire detection system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire detection system with a new, listed addressable fire detection system in accordance with NFPA 72.	<b>Design within 4 months, Install within 9 months</b>
				



SI No.	Category	Findings	Required Action	Remediation Time Frame
15	<b>Fire Detection ITM</b>	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	<b>Within 3 months</b>
16	<b>Fire Protection</b>	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.	<b>Design within 4 months, Install within 9 months</b>



SI No.	Category	Findings	Required Action	Remediation Time Frame
17	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 3 months



SI No.	Category	Findings	Required Action	Remediation Time Frame
18	<b>Egress Lighting</b>	Emergency lights not illuminated during testing (burned out, broken, etc.).	Regularly inspect all emergency lighting system as per Accord standard and replace/install lights as needed to illuminate signs.	<b>Within 3 months</b>
