

FIRE SAFETY INSPECTION REPORT

Green Smart Shirts Ltd

ACCORD ID: 23220

**ADDRESS: Tapirbari, Sreepur
(24.237098,90.433191)**

Other Factories: None



Inspected By: Md. Mah Mudur Rahman & Md. Hasibur Rahman Abir

Date: 30, April 2018

Fire Safety Inspection Report

Factory Name: Green Smart Shirts Ltd

Introduction:

Green Smart Shirts Ltd complex was surveyed for fire safety on **30, April 2018** 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): Production building

Factory Address: Tapirbari, Sreepur


Points of contact:

<p>Sayed Golam Mortuza Head of HR, Admin, Compliance, & Maintenance, Email: golam.mortuza@greenshirtsbd.com Cell: +880170-8805906</p>	<p>Sagor Kumar Podder Manager-Compliance Email: sagor.podder@greenshirtsbd.com Cell: +880170-8805931</p>
<p style="text-align: center;">Green Smart Shirts Ltd.</p> <p style="text-align: center;">Sayed Golam Mortuza Head of HR, Admin, Compliance & Maintenance</p> <p>Corporate Office: 15, Doyal Center (3rd & 6th Floor) Sonargaon Janapath Road, Sec-13, Uttara, Dhaka-1230, Bangladesh Hong Kong Office: 7/F Park Fook Industry Building 615-617 Tai Nan West Street, Hong Kong Factory: Tepirbari, Mawna, Sreepur Gazipur, Bangladesh</p> <p>Cell : +88-01708805906 T&T : +8802-48952260, 028991290 E-mail : golam.mortuza@greenshirtsbd.com Web : www.greenshirtsbd.com</p>	<p style="text-align: center;">Green Smart Shirts Ltd.</p> <p style="text-align: center;">Sagor Kumar Podder Asst. Manager- Compliance</p> <p>Corporate Office: 15, Doyal Center (3rd & 6th Floor) Sonargaon Janapath Road, Sec-13, Uttara, Dhaka-1230, Bangladesh Hong Kong Office: 7/F Park Fook Industry Building 615-617 Tai Nan West Street, Hong Kong Factory: Tepirbari, Mawna, Sreepur Gazipur, Bangladesh</p> <p>Cell : +880-1708805931 +880-1744803965 T&T : +8802-48952260, 028991290 E-mail : sagor.podder@greenshirtsbd.com Web : www.greenshirtsbd.com</p>



Findings & Recommendations :

Table 1: 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.

Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
1	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy. Location: Ground floor, Facility Building	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 03 Months	



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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2

Fire Rated Construction

The both exit stairs are not separated by fire-rated construction due to installed fire doors are not properly interfaced with fire alarm system

Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 1- hr. fire-rated construction. Provide minimum 1- hr. fire rated doors as well as listing documents and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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 ACCORD standard 6.8.3.1.

Within 03 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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3

Fire Rated Construction

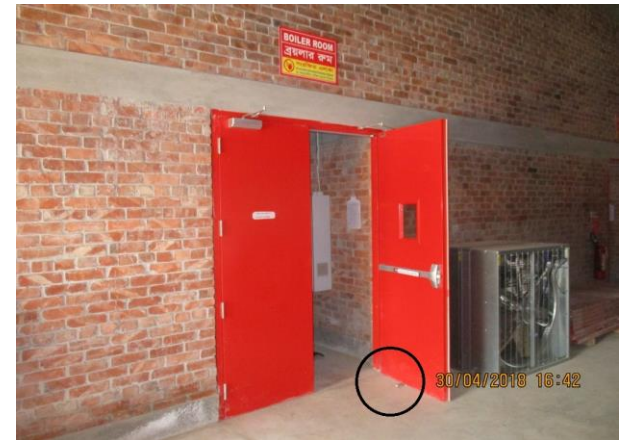
Generator/boiler/compressor/switchgear rooms are not properly separated by fire rated construction with other occupancy. Unsealed penetrations have observed on the rated wall. Even fire doors have found open by external objects.

Location: Ground floor, Utility Building

Generator/boiler/compressor/switchgear rooms shall be separated from other occupancies 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.

If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.

Within 03 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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4

Fire Rated Construction

Fire pump room is not properly separated by fire rated construction with other Occupancies/Areas

Location: Ground floor, Utility Building

Fire pump room shall be separated from other occupancies 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.

Within 03 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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5

Fire Rated Construction

Areas used for in-process storage of combustible materials are open to the surrounding occupancy

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.

Or

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

3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.

Within 03 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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6 Fire Rated Construction
 It has observed that dining area has been occupied with combustible materials without separations.
 Location: 1st floor, facility building

Remove the stored materials from dining areas

Immediately



7 Egress Lighting
 Exit sign not provided at exit.
 Location: Main production building, Facility building and utility building

Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.
 Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.

Immediately



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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8 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 01 Month



9 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 03 Months



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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10 Egress
 Storage was located underneath of exit stair
 Location: Main production and facility building

Remove all storage from exit stairs. Immediately



11 Egress
 Doors along means of egress are provided with non compliant locking system.
 Location: S-W corner door, ground floor

1. Remove all non compliant locking features from egress doors.
 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. Immediately



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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12 Egress

Egress door serving 50 or more occupants but does not swing in the direction of egress travel.

Location: S-W corner door, ground floor

Modify swing direction of egress doors to the direction of egress travel.

Immediately



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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13

Egress



The egress path along means of egress has interrupted by obstruction/storage.

Means of egress shall be maintained continuously free and clear of all obstructions/storage.
Or
Keep egress paths and stairs clear of storage.

Immediately



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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14	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 03 Months	 
15	Fire Alarm & Detection System	The factory has been designed & started install the addressable fire alarm system without having approval from AHJ (Authorities Having Jurisdiction). Note: They have submitted the as-built design/drawing of fire alarm system to Accord.	Existing addressable fire alarm & detection system shall be designed & installed as per NFPA 72. Materials shall be listed and 3rd party certified. Modify the system (if required) after getting approval from AHJ.	Design within 04 Months & Installation Within 06 Months	



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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16	Inspection, testing and maintenance	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.	Within 03 Months	
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17	Inspection, testing and maintenance	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records on-site, in accordance with NFPA 10.	Within 02 Months	
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SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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18

Fire Rated Construction

Since the 02 storey production building is steel-composite type and all structural members are resting on steel column and girder which are not fire resistive type.

Construction of new non-high-rise factories containing G and/or H2 occupancies (factories) shall be Type 1 or Type 2 construction as required in BNBC Part 2 Table 3.2.4.

Within 06 Months

