

# FIRE SAFETY INSPECTION REPORT

**Factory Name: Besta Apparels (New)**

**ACCORD ID: 23264**

**ADDRESS:**

**Holding# 666/1, Word 36. Gacha, Gazipur City Corporation, Gazipur  
23.941965, 90.369348**

**Other Factories: None**



**Inspected By: Tarif Raihan, Kazi Raian Mahmood**

**Date: 06 June, 2018.**

# Fire Safety Inspection Report

**Factory Name: Besta Apparels (New)**

**ADDRESS: Holding# 666/1, Word 36. Gacha, Gazipur City Corporation, Gazipur**

## Summary:

Besta Apparels (New). was surveyed for fire safety on 6th June 2018 by The Accord Inspection Team. This summary identifies the major deficiencies that were identified during the inspection. The purpose of this 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. 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.



## 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.



Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Boiler Room is not separated from other occupancies at Ground Floor of the Main Building	Provide minimum 2-Hr Fire Separation to each occupancy surrounding Boiler.	Within 3 months





2	Fire Rated Construction	Liquefied or compressed gas cylinders were located within the factory under the east exit stair.	The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building.	Within 3 months
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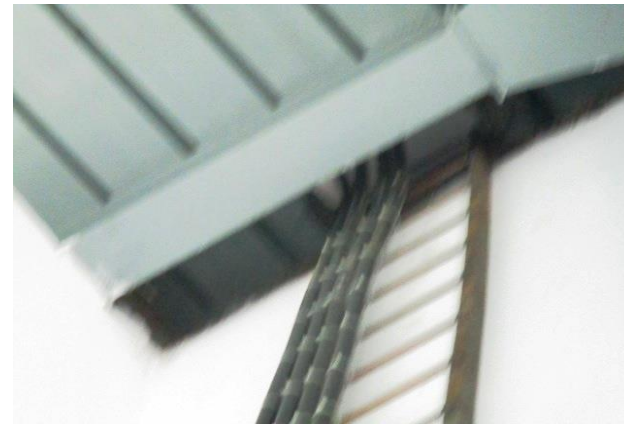


3	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories.</p> <p>Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.</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
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4	Fire Rated Construction	Electrical Riser and Expansion joint are open to the production floor at all floors of the Building	Provide 2-hr FireSeparation to the Unprotected vertical shafts adjacent to production floors.	Within 3 months
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5	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.	Within 3 months
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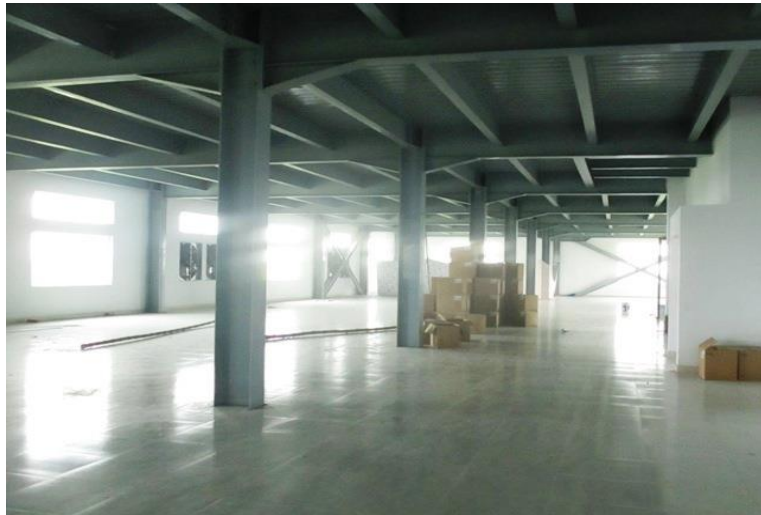
6	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy	<p>Provide defined storage areas and limit the storage arrangement as follows:-</p> <ol style="list-style-type: none"> <li>1. General Condition: Maximum height of 2.4m and maximum area of 23m<sup>2</sup>. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</li> <li>2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup>. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or</li> <li>3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</li> </ol>	Within 3 months
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7	Fire Rated Construction	The main structural element of the building is constructed by steel element which is non-rated and were found in exposed condition without any fire protection.	The building shall be type-I or II construction. So, provide require rating in the structural element of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4	Within 6 months
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8	Egress	Width of aisles is less than 0.9m (36-in.) or not marked properly at several floors .	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Immediate
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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
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10	Egress	Fire evacuation map is not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
11	Documentation	No Smoking sign was not observed throughout the factory	Provide No Smoking sign where necessary	Within 1 month



12	Egress Lighting	Exit sign and Directional Sign are not provided at and towards exit at several floors.	<p>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.</p>	1 month
13	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	<p>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.</p>	Within 1 month



14	Fire Detection and Alarm System	The Fire Alarm System is not available	Submit the proposed design of Addressable fire alarm system to Accord in accordance with NFPA 72. Installation of the system should be as per the reviewed design.	Design within 3 months and installation within 9 months
15	Fire Protection System (ITM)	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 3 month (After completion of the installation)



16	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system. Reviewed design was not found during follow-up inspection	Submit the proposed design of fire fighting system to Accord in accordance with NFPA 14 & installation should be as per the reviewed design	Design within 3 months and installation within 9 months
17	Fire Protection	Fire extinguishers were found at several floors but were not mounted to the wall or separated from the floor with adequate gap as per As per NFPA 10 section 6.1.3.8.3	In no case shall the clearance between the bottom of the fire extinguisher and the floor be less than 4 in. (102 mm). As per NFPA 10 section 6.1.3.8.3	Within 1 month





18	Fire Protection System (ITM)	Inspection, testing & maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect , test & maintain the standpipe system & keep written records on - site , in accordance with NFPA 14.	Within 03 months (After complete installation)
19	Fire Protection System (ITM)	Inspection, testing & maintenance of the Fire Extinguisher is not in accordance with NFPA 10.	Inspect, test and maintain the fire extinguishers, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 03 months

