

INITIAL FIRE SAFETY INSPECTION REPORT

Factory name: Texeurop (BD) Ltd. (Extension)

RSC ID: 24535

Factory Address: Holding no 91/1, Vogra, Word 15, GCC, Bason PS, Gazipur 1702.

GPS: 23.983385, 90.382745

Other Factories: Texeurop (BD) Ltd. (RSC ID: 10029)



Inspected By: Ahammad Kabir & Md. Kamrul Hasan

Date: 22 Nov 2023

Fire Safety Inspection Report

Introduction:

Texeurop (BD) Ltd. (Extension) complex was surveyed for fire safety on **22/11/2023** 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): 1. Building No. 06 (New Building) (B+G+9), (Construction- April 2021-June 2023; Occupied- April 2023)
2. Substation Building (G+4), (August 2016-November 2017; Occupied- December 2017).



Building No. 06 (New Building)



Substation Building

Factory Address: Holding no 91/1, Vogra, Word 15, GCC, Bason PS, Gazipur 1702.

Points of contact:

Khandakar Mashiur Rahman
Sr. Manager- HR & Compliance
Cell: +8801978686800
Email: mashiur@texeuropbangladesh.com

Engr. Md. Mahbubul Alam
Head of Utility & Maintenance
Cell: +8801978082168
Email: mahbub@texeuropbangladesh.com





Findings & Recommendations :

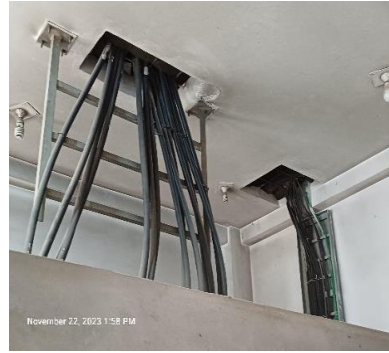
Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for review.

Table-1:

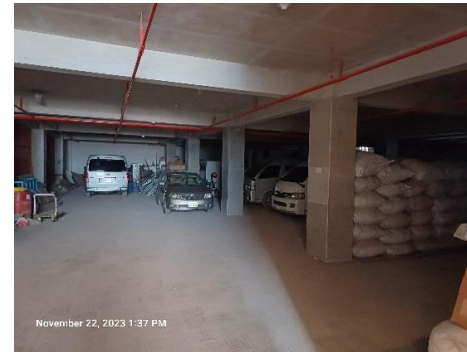
SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Building No. 06 (New Building) & Substation Building)	Provide minimum 1-hr rated doors for buildings 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.	Within 3 months



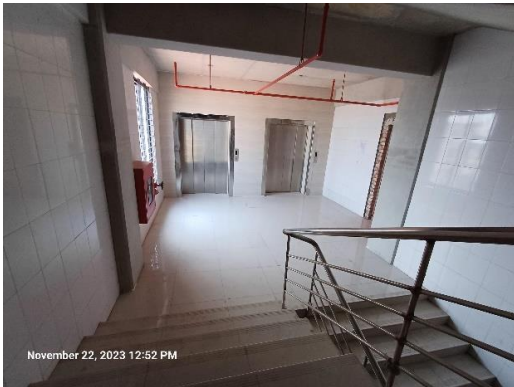
2	Fire Rated Construction	Storage room discharges directly into exit stair enclosure. Location: Building No. 06 (New Building)	Openings from exit enclosure to storage room, generator and transformer spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
				
3	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. (Cable riser and sanitary line in Building No. 06 (New Building) and 1st floor of Substation Building)	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire rated materials shall be following certified design.	Within 3 months



4	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction on the basement, ground, 1st, 2nd, 3rd, and 4th floors. (Building No. 06 (New Building))	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 0.75 hr. (45 Minutes) fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m² (250 ft²) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²).	Within 2 months
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5	Fire Rated Construction	Elevator shafts are directly open into exit stair enclosure-1. (Building No. 06 (New Building))	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure. So, rearrange the facility to provide separate enclosure for lifts. If not possible anyway then provide a minimum 2-hr fire- rated elevator shaft with listed fire rated lift landing door to separate from each floor level.)	Within 3 months
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6	Fire Rated Construction	Discharge path of the stair-3 on the ground floor is not separated from the building interior and pump room. (Building No. 06 (New Building))	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 2 months
				

7	Means of egress	The width of egress aisles is less than 36-in on the 1st to 4th floor. (Building No. 06 (New Building))	Provide minimum aisle widths of 36-in.	Within 1 month
				
8	Means of egress	The width of the exit stair is less than 1.5 m (60 in.). Location: (Building No. 06 (New Building) & Substation Building)	In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m(79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used.	Within 3 months

9	Means of egress	Dead end corridor found exceeds the limit on the 1st to 4th floor. (Building No. 06 (New Building))	Dead end corridor shall be in accordance with RSC Technical Guidelines 6.13.3	Within 1 month
				
10	Means of egress	Occupiable roofs provided with parapets or guards which is less than 42 in. Location: Building No. 06 (New Building)	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067mm (42 in.).	Within 1 month



11	Means of egress	The basement floor has single exit where travel distance limit exceeds. (Building No. 06 (New Building))	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC guidelines 6.6.2, a single means of egress is permitted by RSC guidelines 6.6.5 or where a greater number is required by RSC guidelines 6.6.3.	Within 2 months
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12	Means of egress	Egress path found obstructed on exit discharge position (stair-3 at discharge path) where changed in elevation of walking surfaces exceed 6.35 mm (1/4 in) but not provided with a beveled slope. (Building No. 06 (New Building))	Abrupt changes in elevation of walking surfaces shall not exceed ¼ in. unless provided with a beveled slope of 1 in 2 that do not exceed ½ in. Changes greater than ½ in. shall meet the requirements for RSC Standard 6.3.5.	Within 1 month
				

13	Means of egress	Fire evacuation maps was not posted at all the entrance to each exit stair at Building No. 06 (New Building) and not updated within the substation building.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
14	Means of egress	Handrails are not provided on both side of the exit stairs. Location: Building No. 06 (New Building) and substation building.	Provide handrails on both side of the stairs which 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. Guards are required to be according to RSC Technical Guidelines 6.12.2 (a sphere of 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 month
				

15	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors. (Building No. 06 (New Building) & Substation Building)	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month
16	Emergency Lighting	Exit signage was not provided along a path of egress. This is typical on many floors. (Building No. 06 (New Building) & Substation Building)	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month



17	ITM Emergency Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard). (Building No. 06 (New Building) & Substation Building)	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 month
18	Means of egress	Building did not have occupant load signs at required locations on all floors. (Building No. 06 (New Building) & Substation Building)	Provide occupant load signs at required locations.	Within 2 weeks
 				

19	Means of egress	Five storied substation building has single exit at all floors level. (Substation Building))	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC guidelines 6.6.2, a single means of egress is permitted by RSC guidelines 6.6.5 or where a greater number is required by RSC guidelines 6.6.3.	Within 3 months
				
20	Fire Detection & Alarm System	Building No. 06 (New Building) has no automatic fire alarm & detection system installed rather single station manual fire alarm system found installed. But the Substation building has fire alarm & detection system by control panel used by another RSC ID: 10029. (Building No. 06 (New Building) & Substation Building)	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Once reviewed, install or modify the fire detection and alarm system (where required) throughout the building in accordance with Accord standard and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design Review within 1 month and installation within 4 months (If require).



21	Fire Protection System (Standpipe)	The building has highest occupiable floor level more than 11 meter (33 ft.) which requires standpipe system. (Building No. 06 (New Building) & Substation Building)	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14, 20, 22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 1 month and installation within 4 months (If require).
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22	Fire Protection System (Sprinkler)	The highest occupiable floor level is more than 75 ft. which requires sprinkler system (Building No. 06 (New Building))	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify (if required) the sprinkler system throughout the building in accordance with review comment, RSC Standard and NFPA 13,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 1 month and installation within 4 months (If require).
23	ITM of Fire Alarm System	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 installation.

24	ITM of Standpipe System	Inspection, testing and maintenance for the standpipe system was not in accordance with standard.	Inspect, test and maintain the standpipe system in accordance with of NFPA 25 and keep written records on-site.	Within 1 Month after installation.
25	ITM of Pump System	Inspection, testing, and maintenance for the Fire pump & water system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump & water system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after installation.
26	ITM of Sprinkler System	Inspection, testing, and maintenance for the sprinkler system is not in accordance with NFPA 25, 13 or as per RSC standard.	Inspect, test and maintain the sprinkler system and keep written records on-site, in accordance with NFPA 25, 13 or as per RSC standard.	Within 1 Month after installation.
27	ITM extinguisher	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 and RSC Technical Guidelines.	Within 1 month

28	Human Element Program	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 week
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