

# INITIAL FIRE SAFETY INSPECTION REPORT

**IFS Texwear (Extension)**

**RSC ID: 24506**

**ADDRESS: 631, KUTUBPUR, FATULLAH, NARAYANGONJ.**

Geographical Coordinates of factory building: 23.647143, 90.500694

**Other Factories: IFS TEXWEAR (ID: 9777)**



**Inspected By: Mohammad Anayet Hossain, Md. Kamrul Hasan**

**Date: 19-December-2022**

# Fire Safety Inspection Report

## IFS Texwear (Extension)

**RSC ID: 24506**

**IFS Texwear (Extension)** complex was surveyed for fire safety on **19/12/2022** 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.

## Findings & Recommendations :

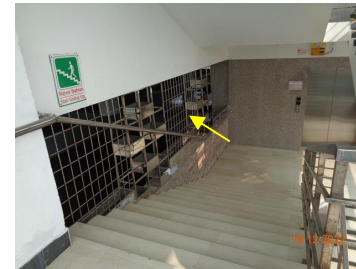
Table 1 - summarizes the fire safety non-compliant issues identified (in all structures) during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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: Findings & Recommendations**

| SI No. | Category                | Findings                                                                                                    | Required Action                                                                                                                                                                                                                                                            | Remediation Time Frame |
|--------|-------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-1    | Fire-Rated Construction | Generator room is not properly separated by fire rated construction with boiler & storage areas at Shed 16. | Separate the generator room by a minimum 2-hr fire rated construction. Seal and/or protected all openings to maintain fire separations.<br>Or<br>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. | Within 3 months        |

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| F-2                                                                                                                         | Fire-Rated Construction | Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. | <p>Provide minimum 2-hr fire rated separation in exit enclosures with minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels with similar rating of fire door.</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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| F-3                                                                                                                          | Fire-Rated Construction | Rooms used for combustible storage are not separated by fire-rated construction. Location: At Shed 16. | Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. Openings shall be protected with minimum ¾ hr. fire protective opening assemblies. | Within 3 months |
| <div data-bbox="598 956 1033 1284" data-label="Image"> </div> <div data-bbox="1134 953 1612 1278" data-label="Image"> </div> |                         |                                                                                                        |                                                                                                                                                                                                                          |                 |

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| F-4                                                                                                                                                                                                                                                                      | Fire-Rated Construction | Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction. | <p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Or, Where separate storage rooms are not feasible, 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 2.4 m and maximum area of 23 m<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 3.66 m and maximum area of 93 m<sup>2</sup>. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</li> </ol> | Within 3 months |
| <div>    </div> |                         |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |

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| F-5                                                                                                                                                                                    | Fire-Rated Construction | Elevator shafts are directly open into the exit stair 1 (SW-Stair).                   | Ensure minimum 2-hr listed/3rd party certified fire rated lift landing doors for elevator shafts otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.                                    | Within 3 months |
| <div data-bbox="663 680 877 888" data-label="Image"> </div> <div data-bbox="877 605 1312 932" data-label="Image"> </div> <div data-bbox="1312 672 1593 880" data-label="Image"> </div> |                         |                                                                                       |                                                                                                                                                                                                                        |                 |
| F-6                                                                                                                                                                                    | Fire-Rated Construction | Dining area is not separated from storage area.<br>Location: 6th Floor- ETP Building. | Re-locate the dining area or separate the dining area from other occupancies with 3-hr fire rated construction.<br>Provide required exits that lead directly to the street or exit stairwell or leading to open space. | Within 3 months |

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| F-7                                                                                                                                                                                   | Fire-Rated Construction | Transformer room is not properly separated by fire rated construction.<br>Location: Ground floor- ETP Building. | Oil filled transformers for non high rise buildings shall be separated by a minimum 2 hour fire resistive rated construction.<br>Rooms used for the housing of oil filled transformers shall be in compliance with BNBC Part 4 Section D 15 for highrise buildings or<br>by a minimum spatial separation of 3 m (10 ft) where located exterior to the building. | Within 3 months |
| <div>   </div> |                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                 |                 |

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| F-8                                                                                                                                                                                                                                                              | Fire-Rated Construction | <p>Penetrations through floor /ceiling assemblies located in the fire-rated floor/ceiling assemblies (Utility and BBT).<br/>Location: All floors of ETP Building.</p> | <p>Penetrations of fire resistive rated assemblies shall be protected with a listed through penetration fire stop system tested in accordance with ASTM E814 in accordance with RSC 4.7.</p> | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                                       |                                                                                                                                                                                              |                 |

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| F-9                                                                                                                                                                                                                                                              | Fire-Rated Construction | Compressor is not properly separated by fire rated construction with other occupancies of the building. Location: At Shed 8 and Ground floor of ETP Building. | Compressor shall be separated from other occupancies by a minimum 1-hr fire rated construction (wall, floor, slab etc). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) 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.<br>Or<br>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |

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| F-10                                                                                                                                                                                                                                                           | Fire-Rated Construction | The fire pump room is not provided with adequate fire separation.<br>Location: At Shed 8.                                                                                   | Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers in accordance with NFPA 20.<br>Or,<br>Physically separate the pump room from the protected building by a minimum of 50 ft (15.3 m) in accordance with NFPA 20. | Within 3 months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                         |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                   |                 |
| F-11                                                                                                                                                                                                                                                           | Fire-Rated Construction | Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.<br>Location: Mezzanine floor- ETP BUILDING. | 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.                                                                                           | Within 3 months |



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| F-12                                                                                                                                                                                                                                                           | Means of Egress | Width of aisles is less than 0.9m (36-in.).<br>Location: Few areas of the ETP Building. | Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).                                                                      | Within 1 month |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                 |                                                                                         |                                                                                                                                                          |                |
| F-13                                                                                                                                                                                                                                                           | Means of Egress | Handrails are not provided in both side of the exit stairs.<br>Location: ETP Building.  | Provide 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. | Within 1 month |

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| F-14 | Means of Egress | Fire evacuation maps 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 |
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| F-15 | Means of Egress | Re-entry is not available for the ETP Building. | Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry as per ACCORD standard 6.8.3 | Within 2 months |
|------|-----------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|

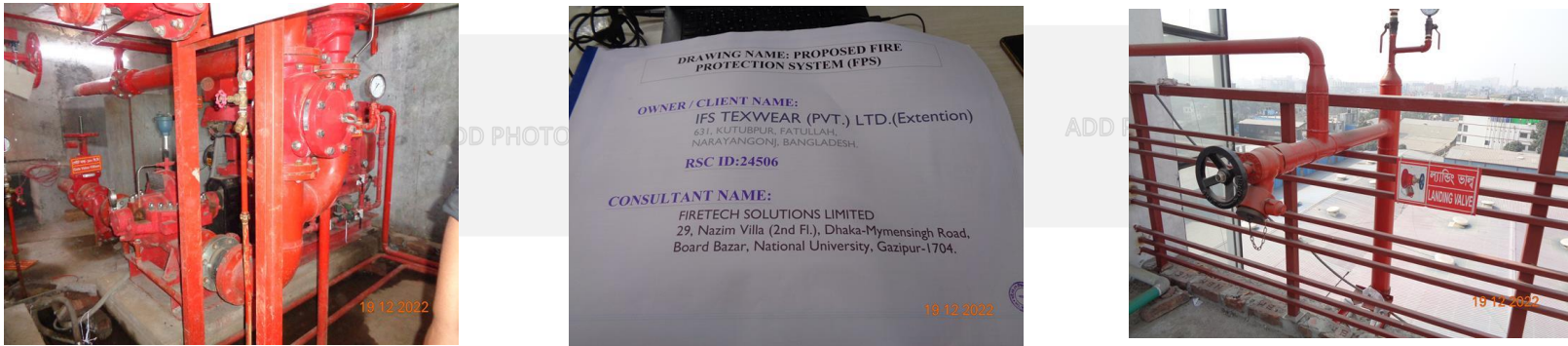
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| F-16                                                                                                                                                                                                                                                                                                                                                                     | Means of Egress | Common path of egress travel exceeds 23 meter.<br>Location: Mezzanine floor- ETP Building.                                                   | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 meter.                                                    | Within 2 months |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;">ADD PHOTO</div>  <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;">ADD PHOTO</div> </div> |                 |                                                                                                                                              |                                                                                                                                                              |                 |
| F-17                                                                                                                                                                                                                                                                                                                                                                     | Egress lighting | Directional signs are not provided where direction of the path of travel to an exit has changed.<br>Location: Mezzanine floor- ETP 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  |

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| F-18                                                                                                                                                                                                                                                                                                                                                                     | Egress lighting | Exit sign not provided at all exit. | <p>Illuminated 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. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p> | Within 1 month |
| <div style="display: flex; justify-content: space-around;">   </div>                                                                                                                              |                 |                                     |                                                                                                                                                                                                                                                                                                                                                |                |

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| F-19                                                                                                                                                                                                                                                                                                                                                                     | Egress lighting | Manual on-off switch is provided for emergency lighting units.                                                                       | Remove manual on/off switches from emergency lighting & exit signage units to prevent them from being switched off.                                                                                                                                                                                          | Within 1 month  |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;">ADD PHOTO</div>  <div style="background-color: #f0f0f0; padding: 10px; border: 1px solid #ccc;">ADD PHOTO</div> </div> |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
| F-20                                                                                                                                                                                                                                                                                                                                                                     | 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 2 months |

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| F-21                                                                               | Egress lighting (ITM) | Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC standard.                                                | Inspect, test and maintain the exit sign and emergency lighting system in accordance with the RSC standard. Keep written records on-site.                                                                                                                                                                                                                                       | Within 3 months                                       |
| F-22                                                                               | Fire Alarm System     | 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. | Design & Install Fire Alarm system which shall be in accordance with RSC Technical Guidelines (Standard) and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. | Design within 2 months & Installation within 4 months |



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| F-23                                                                                | Fire Alarm & Detection System (ITM of FADS) | Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.                                          | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72 and RSC Technical Guidelines (Standard).                                                                                                                                                                                             | Within 1 month after installation                |
| F-24                                                                                | Fire Protection System (Standpipe)          | Standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22 and RSC Technical Guideline (Standard). | Submit the fire pump, standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 14, 20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system. | Design within 2 months, Install within 4 months. |
|  |                                             |                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                     |                                                  |

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| F-25 | Fire Protection System (ITM of fire pump)    | Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20 and RSC Technical Guideline (Standard).        | Inspect, test and maintain the fire pump in accordance with NFPA 20 and RSC Technical Guideline (Standard) and keep written records on-site.        | Within 1 month after installation. |
| F-26 | Fire Protection System (ITM of Standpipe)    | Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 and RSC Technical Guideline (Standard). | Inspect, test and maintain the standpipe system in accordance with NFPA 25 and RSC Technical Guideline (Standard) and keep written records on-site. | Within 1 month after installation. |
| F-27 | Fire Protection System (ITM of 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 standards.          | Within 2 months                    |