

# INITIAL FIRE SAFETY INSPECTION REPORT

**Talisman Ltd. (New Unit)**

**RSC ID: 25742**

**Plot: 170-176, DEPZ (Extension Area), Ganakbari, Ashulia, Savar, Dhaka-1349**

**23.945133, 90.278967**

**Other Factories: None**



**Inspected By: Md. Sadid Rahman, Tanvir Jubayer Rahman & Asma Siddique**

**Date: 06-May-2024**

# Fire Safety Inspection Report

## Talisman Ltd. (New Unit)

### Introduction:

**Talisman Ltd. (New Unit)** complex was surveyed for fire safety on **06-May-2024** 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):** There are total 5 no's of structures in the factory compound under this RSC ID 25742 where approval authority of all structures are BEPZA. The buildings are as below:



SI No	Building Name & Description	Construction History	Period
1	<b>Building-1: Main Production Building</b> 2 storied RCC building (Proposed 3- storied where top floor will be pre-fabricated steel structure) Total Approx Area: 1,77,500 Sft (Proposed 2,40,000 Sft)	Construction Start: June 2003 Construction End: December, 2004 Date of first Operation: Oct 2023 Building Approval: On 28 Feb 2024 from BEPZA	Existing
2	<b>Building-2: Utility Building</b> 2 Storied (G+1) RCC building Total Approx Area: 16,300 Sft	Construction Start: May, 2023 Construction End: December, 2023 Date of first Operation: January, 2024 Building Approval: On 28 Feb 2024 from BEPZA	New
3	<b>Building-3: Dining Building</b> 2 Storied (G+1) RCC Building Total Approx Area: 8,900 Sft	Construction Start: October, 2023 Construction End: February, 2024 Date of first Operation: March, 2024 Building Approval: On 28 Feb 2024 from BEPZA	New
4	<b>Building-4: Security &amp; Fire Control Room</b> Single Storied RCC Building Total Approx Area: 380 Sft	Construction Start: June, 2003 Construction End: December, 2004 Date of first Operation: October, 2023 Building Approval: On 28 Feb 2024 from BEPZA	Existing
5	<b>Building-5: RMS Room</b> Single Storied RCC Building Total Approx Area: 130 Sft	Construction Start: June, 2003 Construction End: December, 2004 Date of first Operation: October, 2023 Building Approval: On 28 Feb 2024 from BEPZA	Existing

**Factory Address:** Plot: 170-176, DEPZ (Extension Area), Ganakbari, Ashulia, Savar, Dhaka-1349

## Findings & Recommendations :



Table 1 summarize the fire safety non-compliant issues identified 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 review.

Table-1: For B#4, ETP, Guard Room -1 and 2.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	<p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction.</p> <p>Location: building-1</p>	<p>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.</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-2	Fire Rated Construction	Storage room discharges directly into exit stair enclosure on 1st floor and ground floor . Location: Building-1	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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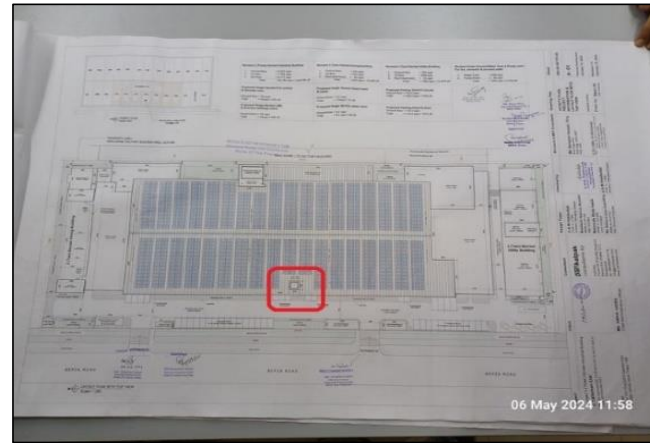


F-3	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies in several locations. Location: Building-1</p>	<p>Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level. Or, Seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design and manufacturer's guidelines.</p>	Within 3 months
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F-4	Fire-Rated Construction	Elevator shafts are directly open into production floor without proper fire separation.  Location: Building-1	Ensure a minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with a 2-hr fire-rated construction barrier and 1.5-hr fire-rated doors.	Within 3 months
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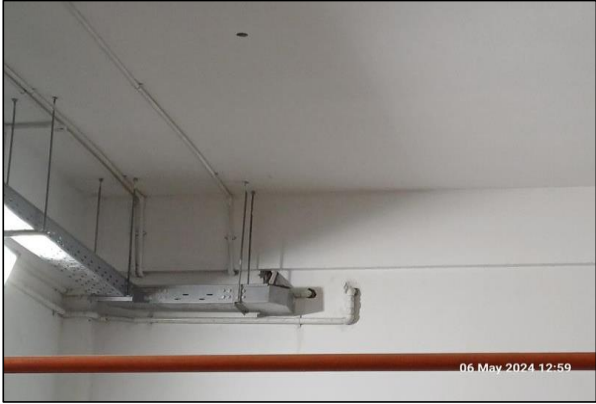




F-5	Fire Rated Construction	<p>The main structural element of a small part of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p> <p><b>Location:</b> Building-1: Main production building.</p>	Separate the non-rated part of the building from rest of the structure with a 2hr fire rated construction at each floor.	Within 3 months
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F-6	Fire Rated Construction	<p>The intermediate distance between the main production building and another factory building found 3 feet 9 inch (at East side). Exterior wall is not protected by fire rated assembly as per BNBC 2006, Table 3.2.2.</p> <p>Location: Building-1</p>	<p>All buildings and structures shall be separated from other buildings in accordance with BNBC 2006 Part 3 Table 3.2.2 and BNBC 2006 Part 3 Section 2.4.1.3. Exterior walls of exit enclosures in interim and existing buildings must meet the requirements of BNBC 2006. (See also 6.14.5).</p>	Within 3 months
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F-7	Fire Rated Construction	<p>Rooms used for combustible storage are not separated by fire rated construction on ground floor.</p> <p>Location: Building-1 (Ground Floor)</p>	<p>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 barrier construction.</p> <p>Ensure the integrity of the installation of fire rated material through proper documents (Datasheet, Certificate, UL drawing, installation report,etc) and listing labeling.</p>	Within 3 months
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F-8	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies in several locations. Location: Building-3	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 and manufacturer's guidelines.	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				

F-9	Means of Egress	South-east and north east exit stair discharge width is less than 10 feet and not separated from surrounding building opening.	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 1 month
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F-10	Means of Egress	Building did not have stair designation signs, occupant load signs and evacuation maps at required locations on all floors. <b>Location:</b> Typical for all structure.	Provide stair designation signs, occupant load signs and evacuation maps at required locations.	Within 1 months
F-11	Means of Egress	Handrails are not provided on both sides of the north-east and south-east exit stair on all floors. Location: Building-1	Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in. 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.	Within 1 month

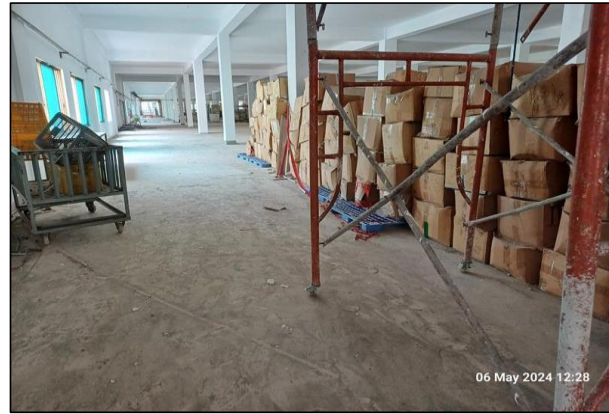


F-12	Means of Egress	<p>Egress door on exit discharge serving 50 or more occupants but does not swing in the direction of egress travel.</p> <p>Location: Building-1</p>	<p>Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 shall swing in the direction (out-ward) of egress travel .</p>	Within 1 month
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F-13	Means of Egress	The sloping of the ramp is not as per standard. <b>Location:</b> South side of Building-1	6.10.2: New ramps shall not have a running slope greater than 1 in 12 (8 percent). Existing ramps shall not have a running slope greater than 1 in 8 (12.5 percent).	Within 1 month
<div style="display: flex; justify-content: space-around;">   </div>				

F-14	Means of Egress	<p>Aisle marking has not been provided in some location.</p> <p>Location: Building-1</p>	Provide Aisle marking in all required locations	Within 1 month
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F-15	Means of Egress	Travel distance has been found approximately 200 feet on ground floor of main production building.	<p>Travel distance to reach an exit for interim and existing buildings shall not exceed the values listed in BNBC 2006 Part 4 Section 3.15.1 (45 m for occupancy G2).</p> <p>Travel distance limitations for G2 (RMG factories) shall be increased to 60 m (200 ft) where a complete automatic fire detection system, portable fire extinguishers, and standpipe system are provided in accordance with the RSC Technical Guidelines (Standard).</p>	Within 1 month
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F-16	Emergency Lighting	Exit signage was not provided along a path of egress. This is typical on all 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. All required exit signs shall be illuminated continuously at all times. 10.12.1.2</p> <p>Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2cd/m<sup>2</sup> may also be used. Lighting for exit signs shall either be provided with emergency power or battery backup.</p>	Within 1 month
<div style="display: flex; justify-content: space-around;">   </div>				
F-17	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.	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



F-18	Inspection, testing, and maintenance	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard)	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 month.
F-19	Fire Alarm & Detection System (FADS)	Automatic Fire alarm & detection system installation has been found ongoing which requires detailed review to confirm compliance with NFPA 72 and the RSC Technical Guidelines (Standard)  Typical for all structure.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA- 72.  Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design within 2 months, installation/modification on within 4 months



F-20	Inspection, testing, and maintenance	Inspection, testing and maintenance of the addressable fire alarm and detection system is not in accordance with NFPA 72, and the RSC Technical Guidelines (Standard).	Inspect, test and maintain the addressable fire alarm and detection system and keep written records on- site, in accordance with NFPA 72 and the RSC Technical Guidelines (Standard)	Within 1 month
F-21	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 onsite, in accordance with NFPA 10 and RSC standards.	Within 3 month