

INITIAL FIRE SAFETY INSPECTION REPORT

Denitex Ltd (Extension)

RSC ID: 26012

Geographical Coordinates: 23.8233468,90.255950

Address: 9/1, Karnapara , Savar, Dhaka & 10/2 Hazi Younus Ali Sarak, Karnapara ,Savar, Dhaka 1340

Other Factories: Denitex Ltd (RSC ID : 12477)



Inspected By: Hamed Mustakim

Date: 27-January-2025

Fire Safety Inspection Report

Denitex Ltd (Extension)

Introduction:

RSC ID : 26012

Denitex Ltd (Extension) complex was surveyed for fire safety on **27-January-2025** 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

There are total 2 structures covered under this RSC ID 26012. Between this, one structure is for production and one structure is for ancillary. The buildings are as below:



SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Building 1 : ETP Building	November-2022 to - March-2024	Savar Pouroshova on 28-12-2023	Jul-2024	RCC (G+M+2)	New
2	Building 2 : Boiler Building	January-2022 to August-2022		Apr-2024	RCC (G+M)	New

Factory Address: 9/1, Karnapara, Savar, Dhaka Bangladesh

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: All structures under this ID


SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Means of Egress	The factory has installed fire rated doors for exit stair separation on all floors for all stairs. The datasheets & certificates of installed fire-rated doors was not found onsite to verify. Location: ETP Building	Submit proper datasheet and certifications for installed fire doors to the RSC for approval. If not available, or certification is not approved, install new, properly certified fire rated doors in accordance with RSC direction.	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				


F-02	Means of Egress	Storage room/areas discharges directly into the exit stair enclosure is not provided with vestibule on Mezzanine and 1st floor at ETP 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 as per RSC standard 6.14.3.	Within 3 months
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F-03	Means of Egress	<p>Stair width inadequate less than 60 inch (Stair-1: 51inch and Stair-2: 52 inch).</p> <p>Location: ETP Building</p>	<p>In new and interim construction, constructed stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1</p>	<p>Within 3 months</p>
<div style="display: flex; justify-content: space-around;">   </div>				
F-04	Means of Egress	<p>Directional signs are not provided where direction of the path of travel to an exit has changed at several location.</p> <p>Location: ETP Building</p>	<p>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.</p>	<p>Within 3 months</p>

F-05	Means of Egress	Exit sign found inadequate at several exit location. Location: ETP 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.	Within 3 Months
F-06	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Each floors at ETP 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
F-07	Means of Egress	Building did not have occupant load signs at required locations.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	Within 1 month
F-08	Means of Egress	Updated fire evacuation map was not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair. Evacuation map shall reflect the actual floor condition.	Within 1 month

F-09	Fire Rated Construction	<p>The required fire separation distance for ETP Building does not comply with the requirements of BNBC 2020.</p> <p>Location: ETP Building</p>	<p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.</p>	Within 6 months
				
F-10	Inspection, Testing & Maintenance (Fire)	<p>Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard).</p>	<p>Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.</p>	Within 1 month

F-11	Fire Alarm & Detection System (FADS)	<p>The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).</p> <p>Locations: All Building.</p>	<p>Submit proposed the fire alarm system design to RSC for review. Once the design is reviewed, install the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation the factory shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.</p>	Design Review within 2 months and installation/modification within 4 months.
				
F-12	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month (after installation)

F-13	Fire Suppression System (SUPS)	Fire protection System (Standpipe) installed and requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 & RSC Technical Guidelines (Standard)	<p>Submit the Standpipe and Fire Pump System drawing and documents to RSC for review. Once reviewed, install or modify the Automatic Sprinkler System throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 13, 14, 20, 22 and 24.</p> <p>After installation, the factory shall contact the RSC for witness of conducting the final acceptance testing of the SUPS (Sprinkler with standpipe) system.</p>	Design Review within 2 months and installation/modification within 4 months.
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F-14	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month (after installation)
F-15	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month (after installation)
F-16	Inspection, Testing & Maintenance (Fire)	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 Technical Guidelines (Standard).	Within 1 month