

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: OCEAN SWEATER IND. (PVT.) LTD. (EXTENSION)

RSC ID: 26031

Factory Address: Islampur, Joydebpur, Gazipur

Other Factories: OCEAN SWEATER IND. (PVT.) LTD. (ID-12117)



Inspected By: Mahbub Alam Sami

Date: 03 March 2025

Fire Safety Inspection Report

Introduction:

OCEAN SWEATER IND. (PVT.) LTD. (EXTENSION) complex was surveyed for fire safety on **03 March 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 the 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) with descriptions:

01. Shed-01 (Warehouse & ETP, Single-storied Shed): Shed-01 is a single-story pre-fabricated steel shed whose construction was started in April 2020 ended in September 2020, and occupied on January 2021. The Shed-01 is an Interim Construction whose plan was approved by the LGED, Gazipur Sadar on 22nd May 2007. The approval from DIFE was given on 3rd Sep 2024. The area of Shed-01 is 717 sqm. The shed is being used as a Warehouse and EPT purpose of the factory.

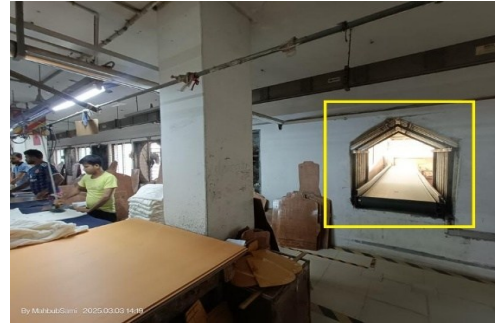
02. Shed-02 (Sample Section, Single-storied Shed): Shed-02 is a single-story pre-fabricated steel shed whose construction was started in June 2012 ended in February 2013, and occupied on June 2023. The Shed-02 is an Interim Construction whose plan was approved by the LGED, Gazipur Sadar on 13th July 2010. The approval from DIFE was given on 3rd Sep 2024. The area of Shed-02 is 500 sqm. The shed is being used as CMT operation purpose of the factory.

Factory Address: Islampur, Joydebpur, Gazipur.

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: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Opening due to Conveyor Belt duct through the Storage shed from the 1st floor of the Main Building of ID-12117 found unsealed/ without any fire separation. Location: Shed-01 (Warehouse & ETP, Single-storied Shed).	Seal all penetrations and openings in floor/ ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party-certified and installation shall be as per manufacturer's guideline.	Within 3 months
 				

F-2	Fire Rated Construction	The main structural elements of the shed buildings are constructed of non-rated steel. Steel members were found in exposed conditions without any fire protection. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. The construction type shall be confirmed to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the required fire rating.	Within 6 months
 				

F-3	Fire Rated Construction	The structures (Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed) from Main Building of ID-12117) do not have proper distance or separation from adjacent structures (For Shed-01 (Warehouse & ETP, Single-storied Shed) at South, Main Building of ID-12117; at West Boiler and Dining Shed and for Shed-02 (Sample Section, Single-storied Shed) at North and East side Main Building of ID-12117 as per BNBC Part 3 Table 3.2.2. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	All interim buildings and structures shall be separated from other buildings/ structures in accordance with BNBC 2006 Part 3 Table 3.2.2 and BNBC 2006 Part 3 Section 2.4.1.3.	Within 6 months
-----	-------------------------	---	---	-----------------



F-4	Means of Egress	The West exit discharge path from Shed-01 (Warehouse & ETP, Single-storied Shed) is less than 10 ft wide and is not separated from the Boiler & Dining Shed. The North and East exit discharge path from Shed-02 (Sample Section, Single-storied Shed) is less than 10 ft wide and are not separated from the Main Building of ID-12117, which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard)¹ V1.0. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	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. Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation. Alternatively, provide a second remote discharge path to the public way.	Within 3 months
-----	-----------------	---	--	-----------------



F-5	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.	Within 1 month
				

F-6	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.	Within 1 month
F-7	Means of Egress	Exit signs are not provided at all the exits. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	Lighted exit signs shall be placed at the entrance to an exit. Additional directional 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 at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.	Within 1 month

F-8	Emergency Lighting	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC standard. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	Inspect, test and maintain the emergency lighting system in the accordance with NFPA/RSC. Keep written records on-site.	Within 1 month
F-9	Fire Alarm & Detection System (FADS)	The factory has installed a Fire alarm and detection system which requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	Submit the As-built design (along with the existing ID-12117) of the Addressable fire alarm system to RSC in accordance with NFPA 72. The factory shall apply for Pre-T&C VI once the required installation/modification is completed.	Design within 2 months and installation within 3 months

				
F-10	Fire Alarm & Detection System (FADS)	Inspection, testing, and maintenance for the fire detection system are not found in accordance with NFPA 72. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month after installation.
F-11	Fire Protection System	Inspection, testing, and maintenance of portable fire extinguishers are not found in accordance with NFPA 10. Location: Shed-01 (Warehouse & ETP, Single-storied Shed) and Shed-02 (Sample Section, Single-storied Shed).	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 1 month.