

INITIAL FIRE SAFETY INSPECTION REPORT

Shanta Expression Limited (Extension)

RSC ID: 26005

Kakil, Shataish, Mudafa, Vhadam Road, Tongi, Gazipur

Geographical Coordinates : 23.90468574034254, 90.37498019815128

Other Factories:

1. Shanta Expression Limited (RSC ID: 9459)



Inspected By: Md. Kawsar Rubaiat

Date: 26-Feb-2025

Fire Safety Inspection Report

Shanta Expression Limited (Extension)

Introduction:

Shanta Expression Limited (Extension) complex was surveyed for fire safety on **26-February-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

SI No	Building Name & Description	Construction History	Period
1	Building-1: Production & Utility Building 7-storied RCC Building (G+6) Total Approx Area: 27, 867 Sq. ft	Construction Start: Jan 2017 Construction End: Nov 2018 Date of first Operation: May 2019 Building Approval: On 10-Mar-2013 from Tongi Pourasava	Interim
2	Building-2: RMS & CP Room Single-Storied RCC Building (G) Total Approx Area: 250 Sq. ft	Construction Start: Nov 2022 Construction End: Dec 2022 Date of first Operation: Jan 2023 Building Approval: No approval was found.	New
3	Building-3: Diesel Store Shed Single Storied Shed Total Approx Area: 100 Sq. ft	Construction Start: Feb 2024 Construction End: Mar 2024 Date of first Operation: Apr 2024 Building Approval: No approval was found.	New
4	Building-4: Boiler Room Single-Storied RCC Building Total Approx Area: 621 Sq. ft	Construction Start: Dec 2021 Construction End: February 2021 Date of first Operation: Apr 2021 Building Approval: No approval was found.	New
5	Building-5: Security Room Single-Storied RCC Building Total Approx Area: 35 Sq. ft	Construction Start: Nov 2012 Construction End: Dec 2012 Date of first Operation: Jan 2013 Building Approval: No approval was found.	Existing

Factory Address: Kakil, Shataish, Mudafa, Vhadam Road, Tongi, 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 approval.

Table-1: Production & Utility Building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Mean of Egress	The occupiable roof was not provided with an adequate parapet/guard rail (available 40 inches).	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 1 month
		 		
F-2	Mean of Egress	The building did not have stair designation signs at the required locations. Location: All floors.	Provide stair designation sign at at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard), Section 6.9.3.	Within 1 month
F-3	Mean of Egress	Exit stairs serve more than 5 stories and do not have required re-entry provisions on all floors.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard) 6.8.3.1.	Within 1 month

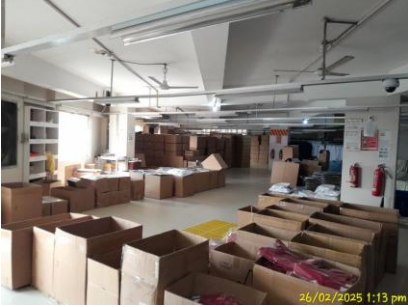
F-4	Means of Egress	Intermediate Handrails are not provided on both exit stairs on all floors; (Stair-1:92 inches, Stair-2: 90 inches). Location: All floors. Production Building.	Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 1 month
				

F-5	Means of Egress	Sliding doors have been provided along the means of egress. Locations: 6th floor.	Replace all collapsible/sliding/shutter type doors & gates with the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
 				

F-6	Means of Egress	The building does not have occupant load signs at required locations on all floors. Locations: All floors (Extension Part)	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 in accordance with RSC Technical Guidelines (Standard), Section 6.4.4.	Within 1 months
F-7	Means of Egress	West Stair Exit passageway is not separated by fire-rated construction from the maintenance room, and compressor room. Factory has claimed to have installed fire-rated curtain to separate the compressor room which requires detailed documents review. Electrical power cable raceway passes through the west exit discharge path.	As per RSC Technical Guidelines (Standard) 6.15.3, exit passageways shall have walls, ceilings, and floors that meet the same rating requirement as the exit that is being served and shall not be less than 1 hr of fire-resistance-rated construction. Submit the installed fire-curtain design & relevant documents for review. As per RSC Technical Guidelines (Standard) 6.14.4, penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure.	Within 3 months
 				

F-8	Fire Rated Construction	Elevator shafts are constructed in the existing period and located in both exit enclosures (Stair 1 & 2). However, both stairs are required for the newly constructed building extension during emergency evacuation, and shall meet RSC Technical Guidelines (Standard)-6.14.3. Elevator shafts are directly open into exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3. Location: Stairs-1 & 2	Modify the elevator shaft as per RSC Technical Guideline (Standard)-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, ensure the lift shaft is 2-hr fire rated including opening protection with similar rating. Recommended to follow "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 months
				

F-9	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed due to plumbing pipes in the toilet & floor areas, expansion joints on all floors. Location(s): All floors.	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 the manufacturer's guidelines. or, Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor if required. Factory shall ensure that all the design, datasheet, certificate, and proposed drawings of installation have been reviewed by the RSC prior to installing the passive fire protection system (If required).	Within 3 months
				

F-10	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location(s): 2nd, 3rd & 4th floors.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. or, If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				

F-11	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy due to fire door non-functionality. Location: 5th floor.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				

F-12	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): 5th & 6th floor.	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
				

F-13	Egress Lighting	Directional signs are not provided where the direction of the path of travel to an exit has changed. Location: 5th & 6th floors, store areas.	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
				
F-14	Fire Protection System(ITM of Emergency Lighting System)	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 the accordance with the RSC standard. Keep written records on-site.	Within 1 month
F-15	Fire Protection System	Standpipe installation requires a verification inspection to confirm compliance with NFPA 14, 20 and RSC Technical Guideline (Standard).	Factory floors are merged with the existing ID: 9459 under the same fire compartment. The Standpipe System design has been previously reviewed by the RSC as per relevant codes & standards under RSC ID:9459. A Final Verification Inspection is required for the entire building, including both the old and new IDs. The factory must submit the design and relevant documents after completing the remediation work. Based on the completion status, the RSC will schedule a Final Verification Inspection for both IDs together to verify any outstanding issues.	Within 1 months



F-16	Fire Protection System(ITM of Extinguishers)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10 and RSC Technical Guidelines (Standard). Locations: All floors.	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC standards.	Within 1 month
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