

INITIAL FIRE SAFETY INSPECTION REPORT

EMS APPARELS LTD. (EXTENSION)

RSC ID: 24612

Barenda, Kashimpur, Gazipur

Other Factories: EMS APPARELS LTD (ID-23715)



Inspected By: Mohammed Anayet Hossain, Md. Tanvir Rahman

Date: 31-Oct-2023

Fire Safety Inspection Report

EMS APPARELS Ltd. (Extension)

Introduction:

EMS APPARELS LTD. (Extension) complex was surveyed for fire safety on **31-Oct-2023** 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):

Factory Building name(S): There are total **1 structures** in the factory compound under this RSC ID-24612.The building are as below:

1.New Building - 6 Storied RCC building.

Approval taking from the city Corporation . Construction started- December 2021 and end July 2023. Occupied partially-August 2023.. Total Floor area: 61400 sqft (Approximately).

Factory Address: Barendra, Kashimpur, Gazipur

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:		
-----------------	--	--

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories.</p> <p>Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.</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
F-02	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the exit stair enclosures</p> <p>Location: 6 storied new Building</p>	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months



F-3	Fire Rated Construction	<p>Areas used for combustible storage are not separated by fire-rated construction</p> <p>Location: 1st,4th etc.</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months
-----	-------------------------	---	--	-----------------




F-4	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed. Location(s): 2nd floor toilet area, etc.</p>	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling; minimum 3 hr.) assemblies by third-party certified fire rated materials to maintain the fire resistance rating. Or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.</p>	Within 3 months
-----	-------------------------	---	--	-----------------



F-5	Fire Rated Construction	Storage room discharges directly into exit stair enclosures at (Stair-1 & stair-2).	<p>Openings from exit enclosure to storage 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 storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guideline/ Standard V.1 (6.14.3)</p>	Within 3 months
-----	-------------------------	---	---	-----------------



F-6	Roof	Parapets or guards are provided in occupiable roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
-----	------	--	--	-----------------

				
F-07	Means of Egress	The emergency evacuation maps was not found in the exit area. Several floor in the new building	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-8	Means of Egress	Building did not have stair designation signs or occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month

F-9	Means of Egress	Exit stairs serve more than 5 stories and do not have required reentry 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 standard .	Within 3 months
F-10	Means of Egress	Aisles marking has not been provided on floor properly. Location: 2nd and 3rd floor	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month
F-11	Fire Alarm & Detection System (FADS)	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 occupant.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Design within 2 months, Install within 4 months



F-12	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	<p>Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification.</p> <p>After installation, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.</p>	Design within 2 months, Install within 4 months
------	--------------------------------------	---	--	---



F-13	ITM of Fire Alarm & Detection system	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	1 month (after installation)
F-14	Fire Protection System (Sprinkler)	<p>sprinkler system installation requires detailed review to confirm compliance with NFPA 13 and RSC standards.</p> <p>Standpipe installation requires detailed review to confirm compliance with NFPA 13, and RSC Technical Guideline (Standard).</p>	<p>Submit the Sprinkler 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 13. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>	<p>Design Review within 2 months and installation within 4 months.</p>



F-15	Sprinkler System ITM	Inspection, testing, and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25.	1 month (after installation)
------	----------------------	---	--	------------------------------

F-16	Fire Protection System (Standpipe)	Standpipe installation requires detailed review to confirm compliance with NFPA 14, 20 and RSC Technical Guideline (Standard).	Submit the 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 Review within 2 months and installation within 4 months.
------	------------------------------------	--	--	---



F-17	ITM of Fire Protection System (Standpipe)	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and RSC standards.	1 month (after installation)
F-18	Fire Protection System(ITM of fire pump)	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.	Design Review within 2 months and installation within 4 months.



F-19	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p>	<p>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</p>	Within 1 month
------	-----------------	---	--	----------------

F-20	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 month
F-21	Egress Lighting	Exit signs are not provided at all the required area Location: new building	Provide exit signs above all exits to the exterior and all doors to the exit stair.	Within 1 month
F-22	Egress Lighting	The directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious. Location: new building	Install 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-23	ITM of Fire Extinguishers	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 The RSC Technical Guidelines (Standard).	Within 1 month
------	---------------------------	---	---	----------------

