

INITIAL FIRE SAFETY INSPECTION REPORT

Tarasima Apparels Limited (Extension)

RSC ID: 25615

Vill: Golora, P/O:Kaitta, Saturaia,Manikganj

Co-ordinate: 23.905291406774467, 90.0519969

Other Factories: Tarasima Apparels Limited [RSC ID: 9598]



Inspected By: A N Faisal Ahmed & Md. Kawsar Rubaiat

Date: 01 April, 2024

Fire Safety Inspection Report

Tarasima Apparels Limited (Extension)

Introduction:

Tarasima Apparels Limited (Extension) complex was surveyed for fire safety on **01-Apr-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):

Factory Building name(s): The factory premises have several constructed & occupied structures which are covered on another RSC ID. **On RSC ID: 25615**, 05 (Five) structures have been covered. The descriptions are given below:

S/N	Building Name	Type of construction	No. of Story	Year of construction	Date of Occupy	Date of Approval (Authority)	Construction Period	Approx Area (sqft)
1	<i>Building-G (Workers' & staff dining)</i>	Steel	G	Jan'2015-Oct'2016	Nov'2016	Jan'16 (LGED)	Interim	33,196
2	<i>Building-H (ETP)</i>	RCC	G+1	Jan'2015-Nov'2016	Dec'2016	Jan'16 (LGED)	Interim	40,007
3	<i>Building-J (Chemical Store)</i>	RCC	G+2	Jan'2019-Feb'2020	Jan'2024	Jan'16 (LGED)	Interim	15,015
4	<i>Building-K (Fabric Warehouse)</i>	Steel	G	Jan'2022-Dec'2023	Jan'2024	Jan'16 (LGED)	Interim	52,000
5	<i>Building-Thermo Oil Heater Room (constructed on two phase)</i>	RCC	G	Jan'2015-Dec'2016 & Jan'2018-Dec'2019	Jan'2017 & 'Jan'2020	Jan'16 (LGED)	Interim	2,240

Factory Address: Kaitta, Sauria, Manikganj

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 No.	Building	Total Finding	Finding Range	Remarks
Table 1	Building-J (Chemical Building)	6	F1-F6	
Table 2	Building H (ETP)	1	F7	
Table 3	Building-K (Fabric Warehouse)	8	F8 - F15	
Table 4	Building-G (Dining Building)	1	F16	
Table 5	Combined Issue	2	F17-F18	



Table-1: Building-J: Chemical Building

SI No.	Category	Findings	Required Action	Remediation Time
F1	Fire Rated Construction	Elevator shafts directly open into exit enclosure. Location: Exit enclosure-2	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. (As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0) Ensure the lift shaft is enclosed by a minimum 2-hour fire rated wall with minimum 1.5-hr fire rated door. Recommended to follow "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 months



F2	Fire Rated Construction	<p>The exit stair enclosures are not separated from work areas and other spaces on the ground floor due to non-rated doors & office room.</p> <p>Location: Ground floor</p>	<p>Provide minimum 1-hr fire-rated construction for buildings up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces by 1-hr fire rated construction.</p> <p>Ensure that the fire-rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire-rated 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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F3	Fire Rated Construction	<p>Electrical power cables and circuit breakers were observed inside the exit stair enclosure-1.</p> <p>Location: Ground floor.</p>	<p>Remove/ relocate the power cables and circuit breaker from the exit stair enclosure. Seal/protect all unprotected openings. 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.</p>	Within 3 months
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F4	Means of Egress	<p>Stair-1 width was less than 60 inches (available: 53 inches)</p> <p>Location: Stair-1.</p>	<p>In new and interim construction stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies. RSC Technical Guidelines (Standard)- 6.5.6.2</p>	<p>Within 3 months</p>
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F5	Means of Egress	Parapet height was less than 42 inches .	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.) as per RSC Technical Guidelines (Standard)-6.12.2.4	Within 3 month
				

F6	Fire Rated Construction	Chemical Storage discharged directly into the exit stair enclosures.	<p>Openings from the exit enclosure to the storage room, shall be provided with a vestibule with fire-rated construction and openings.</p> <p>Provide a 1.5 hr. fire-rated door on the exit stair side and a 1 hr. fire-rated door on the store side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p> <p>The minimum width for vestibules shall not be less than 1.1m and length 1.8m.</p>	Within 3 months
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Table-1: Building-H: ETP Building

F7	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on the 1st floor due to opening from chemical dosing room. Location: 1st floor	Provide minimum 1-hr fire-rated construction for 1 for buildings up to 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces by 1-hr construction. Ensure that the fire-rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire-rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
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Table-3: Building-K: Fabric Warehouse

F8	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction from the fabric inspection room.	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 fire rated barrier construction.	Within 3 months
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F-9	Fire Rated Construction	The main structural elements of the fabric warehouse building are constructed of steel which is non-rated and was found in exposed condition without any fire protection.	<p>The building shall be type-I or type-II construction. So, provide the required rating for the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4</p> <p>Submit the proposed drawing/design to RSC for review. Once reviewed, install passive fire protection as per the reviewed design.</p>	Within 6 Months
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F-10	Fire Rated Construction	The exit access corridor from Fabric Inspection room was not fire-separated from the storage areas due to non rated structures & openings.	Ensure that the passageway is fire rated by 1-hour including protection of unprotected opening & penetration. 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 3 months
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F-11	Fire Rated Construction	<p>The exterior exit discharge of the building is not separated from the exterior openings of the building. Location: South exit</p>	<p>Exterior exit stairs shall be separated by minimum 1-hr fire-rated construction and The rating of the exterior wall shall extend 3.05 m (10 ft.) beyond the ends of the exit structure.</p>	Within 3 Months
				

F-12	Means of Egress	Exit discharge from the north exit is unusable & abrupt changes of elevation in the walking surface have been found. Location: South Exit	Provide an even level walking surface in exit discharge in accordance with RSC Technical Guidelines (Standard)-6.3.4.	Within 1 month
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F-13	Fire Rated Construction	Electrical power cables and circuit breakers were observed inside the north exit access corridor	Remove/ relocate the power cables and circuit breaker from the exit enclosure. Seal/protect all unprotected openings. 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
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F-14	Means of Egress	Both side & intermediate handrails are not provided on both sides of the exit ramp. Location: North East Exit	<p>As per RSC Technical Guidelines (Standard)-6.9.2.4: Handrails shall be provided on both sides of each stairway. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).</p> <p>As per RSC Technical Guidelines (Standard) -6.12.1.2: New & Interim 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.</p>	Within 1 month
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F-15	Means of Egress	The travel distance of the egress path at warehouse area from south to north exit exceeds 45 m.	<p>Reconfigure the egress arrangement so that the travel distance does not exceed 45 m (BNBC 2006 Part 4 Section 3.15.1). Travel distance shall be increased to 60 m (200 ft) where a complete automatic fire detection system portable fire extinguishers & standpipe system is provided and 122 m (400 ft) where a complete automatic sprinkler system is provided.</p> <p>Or, Provide required additional exits.</p>	Within 3 months
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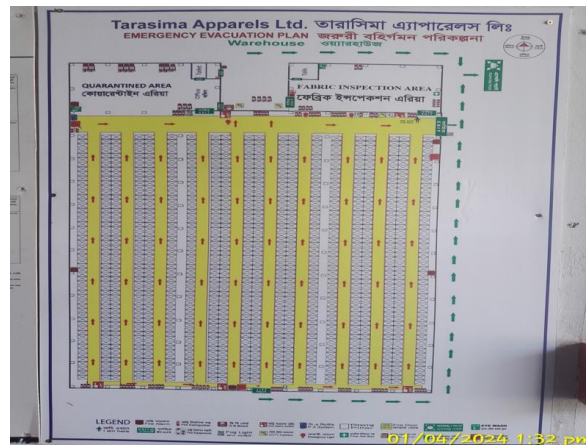


Table-4: Building-G: Dining Building

F-16	Fire Rated Construction	The main structural elements of the fabric warehouse building are constructed of steel which is non-rated and was found in exposed condition without any fire protection.	The building shall be type-I or type-II construction. So, provide the required rating for the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4 Submit the proposed drawing/design to RSC for review. Once reviewed, install passive fire protection as per the reviewed design.	Within 6 Months
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Table-5: Combined Issue

<p>F-17</p>	<p>Fire Alarm & Detection system</p>	<p>Automatic fire alarm and detection system is being installed which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: All Buildings</p>	<p>Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner 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>	<p>Design Review within 2 months and installation/modification within 4 months</p>
<p>F-18</p>	<p>Fire Alarm & Detection system (ITM of FADS)</p>	<p>Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard). Location: All Buildings</p>	<p>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</p>	<p>Within 1 month (after installation)</p>