

INITIAL FIRE SAFETY INSPECTION REPORT

Nafa Apparels Ltd. (Extension)

RSC ID: 24746

ADDRESS: Hizalhati, Baroipara, Kaliakoir, Gazipur

Other Factories: Nafa Apparels Ltd. (In the same premise)



Inspected By: Pantha Pallob Das & Md. Anisuzzaman

Date: 20th August 2023

Fire Safety Inspection Report

Nafa Apparels Ltd. (Extension)

Introduction:

Nafa Apparels Ltd. (Extension); complex was surveyed for fire safety on **20/08/2023** 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): There are four structure under this ID-24746 which are below

1. New 6 storied RCC building with one steel shed on the roof level (Construction started: Oct 2018 to April 2020 and Occupied May 2020)
2. Boiler room RCC structure(Construction started: Oct 2018 to Mar 2021 and Occupied April 2021)
3. Fire pump & Substation room(Construction started: Oct 2018 to Mar 2021 and Occupied April 2021)
4. Diesel Room RCC structure(Construction started: Oct 2018 to Mar 2021 and Occupied April 2021)

1. New 6 storied RCC building with one steel shed on the roof level

Design Approved by : PWD/ 27 February 2020

Construction period: Interim

Highest Occupied floor level/Building height: 72 feet 6inch/ 83 feet 6 inch.

Area: Total building area : 91420 sft(GF Floor=14247 sft, 1st F. to 5th F.= 14593 sft, Roof= 4185sft)

Factory Address: Hizalhati, Baroipara, Kaliakoir, Gazipur

Points of contact:

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2. Name: Md. Lutfar Rahman(Ripon) ,
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Findings & Recommendations :

Table 1- summarizes 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 approval

Table-1: Finding & recommendations

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction.	Building expansion joint & BBT riser are sealed by fire rated sealant/material. The factory has claimed that Building expansion joint & BBT riser are sealed by fire rated materials, which requires to be verified. Location: Busbar penetration & Expansion joints.	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 datasheet.(Type 1 Construction). Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. (Type 1 Construction).	Within 3months



F-2	Fire Rated Construction	Elevator shafts are directly open into the inside of exit enclosure. Location: East side of stair-1 of the new 6 storied RCC building.	Modify the elevator shaft as per RSC Technical Guideline (Standard) V1-6.14.3. 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.	Within 3 months
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F-3	Fire Rated Construction.	It was observed that one steel shed on the roof level which column is RCC, but rafter is steel structure. The factory has claimed that steel rafter is protected by fire rated materials, which requires to be verified. Location: Roof level of new 6 storied RCC building.	The building is a steel structure which shall be type-I construction. Prepare as built design drawing for the passive fire protection and submit RSC for review. Based on reviewed design the issue will be verified physically. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Design within 1 month and application/modification within 4 months after review.



F-4	Mean of Egress	The exit stairs are not separated from work areas, other spaces on each floor by fire rated construction due to unprotected opening. Location: New 6 storied RCC building.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 90 minutes opening protection. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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. Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction as per RSC Technical Guideline (Standard) V1-6.14.3 .	Within 3 months
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F-5	Mean of Egress	The exit discharge path (passageway) is not properly separated due to power cable in the discharge passageway. Location: South side in-between 6 storied building & 3 storied old building.	Relocate the electrical power cables / BBT from the passageway or seal them by masonry construction at least by 2 hour fire construction.	Within 3months
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F-6	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24 or as per RSC standard.	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 1 month and modification within 3 months (If require).
				
F-7	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after modification(If require).

F-8	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 Month after modification(If require).
F-9	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 1 month and modification within 3 months (If require).



F-10	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after modification (if require).
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