

INITIAL FIRE SAFETY INSPECTION REPORT

NEXTGEN STYLE LTD (Relocated)

RSC ID: 25802

ADDRESS: TINGAON, DUPTARA, ARAIHAZAR, NARAYANGONJ, 1460

Other Factories: None



Inspected By: Md. Anisuzzaman

Date: 3rd July 2024

Fire Safety Inspection Report

NEXTGEN STYLE LTD (Relocated)

Introduction:

NEXTGEN STYLE LTD (Relocated); complex was surveyed for fire safety on **03/07/2024** 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): There are 5 structure under this ID-25802 which are listed below:

1. Building#01- Main production building , 4-Storied RCC Structure (Construction: Dec -2016 to Mar-2022 & Occupied: Sep-2022. Total area= 14308 SQM, Per floor area=3577 SQM, Design approved by LGED(Araihazar, Narayangonj) on date Dec 2016, Interim construction).
2. Building#02- Utility Building, Single storied RCC building(Construction: Mar-2021 to Mar-2022 & Occupied: Sep -2022. Total area=149 SQM, Design approved by LGED(Araihazar, Narayangonj) on date May 2023, New construction))
3. Building#03- (Utility- Boiler, Compressor)and Fire Alarm Control Room, Single storied RCC Structure(Construction: Mar-2021 to Mar-2022 & Occupied: Sep -2022. Total area=149 SQM, Design approved by LGED(Araihazar, Narayangonj) on date May 2023, New construction).
4. Building#4-(Utility-WTP), Single storied RCC structure(Construction: Mar-2021 to Mar-2022 & Occupied: Sep -2022. Total area=6.32 SQM, Design approved by LGED(Araihazar, Narayangonj) on date May 2023, New construction).
5. Building#5- Fire pump room, Single storied RCC structure(Construction: Mar-2021 to Mar-2022 & Occupied: Sep -2022. Total area=223 SQM, Design approved by LGED(Araihazar, Narayangonj) on date May 2023, New construction).

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Points of contact:

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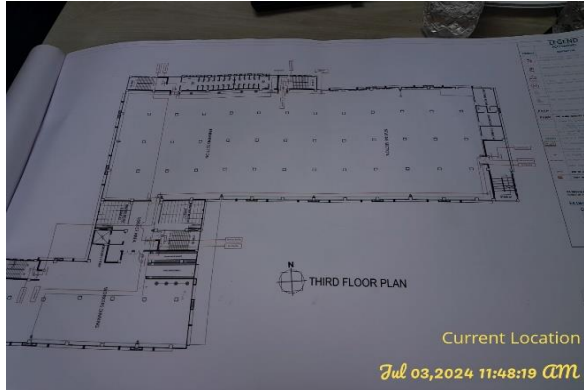
Findings & Recommendations :

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 & recommendation

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: through cable riser & PVC pipe of toilet area of main production building.	Penetrations of fire resistive rated assemblies shall be protected with a listed through-penetration fire stop system tested in accordance with ASTM E814 & As per RSC Technical Guideline standard V1-4.7 OR Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
 				

F-2	Fire rated construction	Dining area is a E3 occupancy more than 300 sitting arrangement, which is not permitted with G2 occupancies as per BNBC 2006 Table 3.2.1 Location: 3rd floor of the building01	The dining area (E3) is not permitted with moderate hazard occupancies (G2) following part 3, table 3.2.1 of BNBC-2006. Relocate the dining to or from this building to meet the requirement as per BNBC 2006, part 4 chapter 3 section 3.21.3 and part 3 of table 3.2.1 OR The dining area(E3 sitting) reduce by E4 & provide fire rated separation from E4 to G2 as per BNBC-2006, part 3, table 3.2.1	Within 3 months
 Current Location Jul 03, 2024 01:41:39 PM  Current Location Jul 03, 2024 11:48:19 AM				

F-3	Fire Rated Construction	Room used for combustible storage are not properly fire separated by fire rated construction due to non- functional fire door & unprotected opening through hose box at stair-4 Location: Ground ,1st & 2nd floor of main production building..	Provide dedicated storage rooms separated by minimum 1 hr. fire rated construction. Seal all unprotected openings and penetration. 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.	Within 3months
  				

F-4	Fire Rated Construction	Storage were observed underneath the cutting tables. Location: Ground floor of main production building.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with RSC building standard section 3.4.2.1.6 or where automatic sprinkler protection is installed. Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.	Within 3 months
 Current Location Jul 03, 2024 01:07:45 PM				
F-5	Fire Rated Construction	Unprotected openings in the exterior wall in two consecutive floors lying not laterally within 1.5 m and vertical spread of fire is not restricted. Location: 4-Storeied main production building	Openings in the exterior wall in two consecutive floors lying within 1.5 m laterally shall be separated with a flame barrier projecting at least 75 CM from the external face of the exterior wall. The flame barrier shall have a fire resistance rating of not less than three-fourths hour as per BNBC 2006, part-3, section: 3.1.7.2	Within 3 months



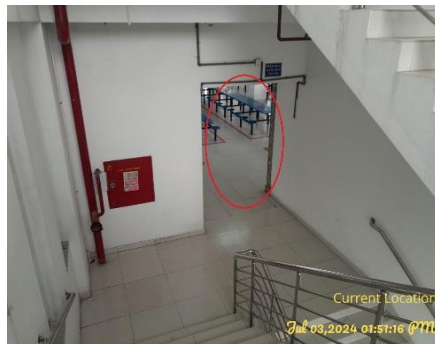
F-6	Fire Rated Construction	Prayer room is not properly fire separated from other occupancy by fire rated construction. Location: 3rd floor of main production building.	Separate the Prayer area from production & other occupancies by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs with the same resistance rating. OR Relocated the prayer room.	Within 3 months
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F-7	Fire Rated Construction	Building expansion joint opening is not sealed by fire rated construction /sealant/material Location: Main production building	Seal the building expansion joint opening by 3 hr. listed fire rated sealant/material to maintain required floor to floor separation. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet.	Within 3 months
  				
F-8	Mean of Egress	The path of egress travel along a means of egress are interrupted by obstruction & reduce the capacity of egress (pump & tree) Location: South & west side exit stair discharge.	Means of egress continuity. The path of egress travel along a means of egress shall not be interrupted by any obstruction. The capacity of the means of egress shall not be reduced along the path of travel as per RSC Technical Guideline Standard V1-6.5.2 .Means of egress shall be maintained continuously free and clear of all obstructions	Within 2 months



F-9	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 at 3rd floor south side exit stair-4 & first floor of the exit stair-1 north side. Location: Main production 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. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guideline (Standard) V1 6.8.3.1.	Within 3 months
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F-10	Means of Egress	Updated Occupant load sign is not posted at the exit stair at all level	Updated Occupant load sign shall be posted at the entrance to exit stair at all level.	Within 1 month
F-11	Means of Egress	Updated Building did not have stair designation signs & exit designation signs at required locations.	Provide Updated stair designation sign & exit designation sign 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.	Within 1 month
F-12	Means of egress	Sliding type doors have provided along means of egress . Location: package section at 1st & 2nd floor of the main production building	Replace all sliding type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1month

				
F-13	Means of egress	Aisles mark is not provided at several area at 3rd floor of the main production building	Aisles shall be provided with a minimum unobstructed clear width of 0.9 m (36 in.).	Within 2 months
				

F-14	Means of Egress	Smoking is prohibited as per verbal information of factory personnel, but signs are not posted in Bengali and English at all building entrances. No designated smoking area is created outside the buildings.	Post smoking prohibited signs in Bengali & English. Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules requires that smoking be prohibited. If an owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs.	Within 1 month
F-15	Mean of Egress	Updated fire evacuation plan & maps is not posted at the entrance of all exit stair.	Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3	Within 1 month
F-16	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	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-17	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes .	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 3 months

F-18	Egress lighting	Emergency lights not illuminated during testing (burned out, broken, etc.). Location: Several floors of main production building	Regularly inspect all emergency lighting system as per RSC standard and replace/install lights as needed to illuminate signs.	Within 1 month
F-19	ITM(Egress lighting)	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 1month
F-20	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. Location: All 5nos structure	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-21	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).
F-22	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-23	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-24	Fire Protection System(Sprinkler System)	Based on the type of structure and height of the main building sprinkler system is not mandatory but installed in lieu of detector, so it is now mandatory and shall be ensured compliant as per NFPA-13.	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify (if required) the sprinkler system throughout the building in accordance with review comment, RSC Standard and NFPA 13,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing. Note: If the system is omitted then compliant detection system shall be ensured for the building following RSC Technical Guideline (Standard)-V1.0	Design Review within 1 month and modification within 3 months (If require).



F-25	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump & sprinkler system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump & sprinkler 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-26	Human Element Program	Fire Drills are not conducted at required intervals as per RSC Standard	Fire drills shall be conducted on regular basis as per RSC Technical Guideline (Standard) V1 13.2	Within 1 month
F-27	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 3 months