

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: SQ Celsius Ltd. (Unit 3)

RSC ID: 24741

ADDRESS: Jamirdia, Valuka, Mymemsingh, Bangladesh.

Other Factories: SQ Birichina Ltd - 9538, SQ Celsius Ltd. (Auto) - 11532, SQ Birichina Ltd Unit 2 - 12229, and SQ Celsius Limited (Unit 2) - 23352



Inspected By: Md. Ferdaus Jaman and Hamed Mustakim

Date: 9th November, 2023

Fire Safety Inspection Report

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Introduction:

SQ Celsius Ltd. (Unit 3) complex was surveyed for fire safety on 09/11/2023 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 is total 18 structures and total six number of factories in the premises. The factories are: SQ Birichina Ltd. (ID-9538), SQ Birichina Ltd Unit 2 (previously SQ Colblanc Limited) (ID-12229), SQ Celsius Ltd. (Auto) (ID-11532), SQ Celsius Limited (Unit 2) (ID-23352), SQ Celsius Ltd. (Unit 3). (ID-24741) and SC Hues Ltd. The SC Hues Ltd is out of the coverage of RSC inspection. **Among those 18 structures, SQ Celsius Ltd. (Unit-3) covers the Finished Goods Warehouse Building.** Another 9 structures were covered under SQ Birichina Ltd (ID-9538), SQ Birichina Ltd Unit 2 (previously SQ Colblanc Limited) (ID-12229), SQ Celsius Ltd. (Auto) (ID-11532), SQ Celsius Limited (Unit 2) (ID-23352). Rest of the eight structures are being occupied by SC Hues Ltd.

Factory Address: Jamirdia, Valuka, Mymemsingh.

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-1	Fire Rated Construction	Finished Goods Warehouse Building (B-01) The exit stairs are not separated from storage areas on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 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 and provide vestibules to avoid direct discharge from storage to exit stair enclosure. 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

				
F-2	Fire Rated Construction	Unsealed vertical shaft is located in the fire rated floor/ceiling assemblies and stairs.	Provide a minimum 2-hr fire rated shaft to separate the vertical riser from each floor if required. Or If install elevator in the shaft then, modify the elevator shaft as per The 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.	Within 6 months

				
F-3	Fire Rated Construction	Storage discharges directly into the exit stair discharge. Location: On ground and 1st floor of stair-1 and stair-2.	Openings from exit enclosure to storage room, 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 store side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 4 months

				
F-4	Fire Rated Construction	The main structural elements of storage building (H2) are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. Also, the intermediate floors are not separated from each other. As per RSC Technical Guidelines (Standard) 1.5.4 this building is defined as an interim building so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0.	Interim building shall be type-1 or type-2 construction as per Table 3.2.4 of BNBC-2006. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Factory shall ensure that, all the design, datasheet, certificate, and the design philosophy has been reviewed from the RSC prior to install the passive fire protection system.	Within 6 months

				
F-5	Fire Rated Construction	The office area is not separated from storage areas by fire rated construction (openings, non-rated doors, penetrations) on the 1st floor.	Separate the office areas from storage occupancy by a minimum 1-hr fire rated construction. Seal and/or protected all openings to maintain fire separations.	Within 3 months
				

F-6	Means of egress	Width of both exit stairs (found 38 & 35 inch) are found less than 1.5 m (60 in.).	In new and interim construction stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies.	Within 3 months
				
F-7	Means of egress	Rolling shutter doors are provided at building exit on ground floor.	Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.	Within 1 month

				
F-8	Means of egress	Egress doors/gates with locking features not complying with NFPA101 are provided at building exits.	Remove locking features from all egress doors/gates. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.	Immediately
				

F-9	Means of egress	Travel distance of egress exceeds limit on the ground and first floor.	Reconfigure the egress arrangement or provide an additional exit to reduce the maximum travel distance to not more than: 45 m (150 ft.) Or 60 m (200 ft.) when a complete automatic fire alarm, portable fire extinguishers, and standpipe are present or 122 m (400 ft.) when a complete automatic sprinkler system, automatic fire alarm, portable fire extinguishers, and standpipe are present.	Within 3 months
				
F-10	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-11	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: On ground and first floor.	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-12	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: On ground and first 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 3 months

				
F-13	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system are 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) and keep written records on-site.	Within 1 month

F-14	Fire Alarm & Detection system	Addressable automatic fire alarm and detection system is not installed throughout the building.	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install 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.	Design Review within 2 months and installation within 4 months
F-15	ITM of Fire Alarm & Detection system	After complete the installation, inspection, testing and maintenance for the fire alarm system is required to maintain in accordance with NFPA 72 and 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	Within 1 month (after installation)

F-16	Fire Protection System (Standpipe)	The standpipe system is required for this building and not installed.	Submit the standpipe system drawing to RSC for review. Once reviewed, install 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	Fire Protection System(ITM of fire pump)	After complete the installation, inspection, testing and maintenance for the fire pump is required to maintain 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.	Within 1 Month (after installation)
F-18	Fire Protection System(ITM of Standpipe)	After complete the installation, inspection, testing and maintenance for the fire pump is required to maintain in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)
F-19	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 3 months