

INITIAL FIRE SAFETY INSPECTION REPORT

Supreme Embellishment Limited

RSC ID: 23869

140/1, East Baghbari, Kashimpur, Gazipur-1700.

23.953943, 90.310995



Inspected By: Md. Sadid Rahman and Kazi Raian Mahmood

Date: 12-Nov-2023

Fire Safety Inspection Report

Supreme Embellishment Limited

Introduction:

Supreme Embellishment Limited complex was surveyed for fire safety on **12-Nov-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 **11 structures** in the factory compound under this RSC ID 23869. The buildings are as below:

1.Shed-01: Single Storied (With Mezzanine) Steel Structure.

Approved from LGED on 18-Aug-2016. Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 34,540 sqft (Approximately).

2. Shed-02: Single Storied Steel Structure.

Approved from LGED on 18-Aug-2016. Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016 Total Floor area: 30,000 sft (Approximately).

3. Shed-03: Color Room- Single Storied Steel Structure.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 1,040sqft.

4.Toilet Block- Single Storied Mansory Structure.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 234 sqft.

5. Shed-04: Dining Shed - Single Storied Steel Structure.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 1,720 sqft.

6. Shed-05: Generator- Single Storied Steel Structure Shed.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 1,008 sqft.

7. Shed-06: New Sub-Station Room- Single Storied Steel Structure Shed.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 571 sqft.

8. Shed-7: ETP Operate Room-Single Storied Steel Structure Shed.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 50 sqft.

9. ETP Plant- Single Storied Steel Structure.

Construction started-6th March-2015 and ended-12th March-2016. Occupied-12th March-2016. Total Floor area: 1,635 sqft.

140/1, East Baghbari, Kashimpur, Gazipur-1700.

Findings & Recommendations :

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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 Number	Total Findings	Building Name	Finding Range	Remarks
1	17	Shed-1,2,3,4,5,6,7,8,9,10,11	F 1-17	

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	All the Sheds are pre fabricated steel construction. The main structural element of the buildings are constructed by steel which is appears to be nonrated and were found in exposed condition. Location: Shed 1,2,3,6	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. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 6 months

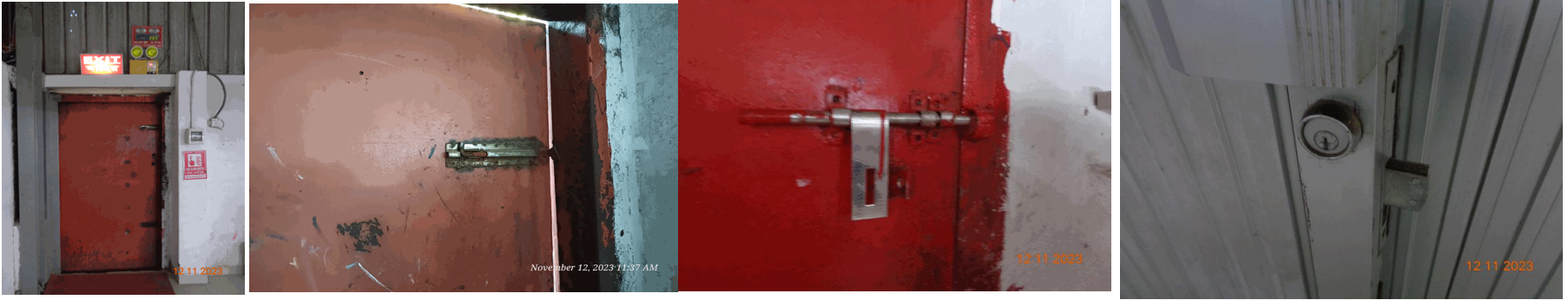


F-2	Fire Rated Construction	Dinning area (Assembly Occupancy) of capacity 90 no's has an unprotected opening with the production floor of shed 1. Location: Shed 4 and Shed 1.	Provide 3 Hr. fire separation of Assembly occupancy (E4) from production floor (G2) to meet the requirement as per BNBC 2006, part III chapter 2 table 3.2.1. Seal all penetration and opening to maintain the separation.	Within 3 Months
		 November 12, 2023 12:32 PM	 November 12, 2023 12:32 PM	

F-3	Fire Rated Construction	Rooms used for combustible material storage and chemical storage are open to the surrounding occupancy. Location: Shed 2	Enclose the storage area from the surrounding occupancy with a minimum 1-hour construction.	Within 3 months
				

F-4	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Combustible materials has kept under cutting table which is non compliant. Location: Shed 1 and Shed 2	Provide defined storage areas and limit the storage arrangement as follows: - 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1-hour construction.	Within 3 months
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F-5	Means of Egress	Locking features were observed at exit doors. Location: Shed 1 & Shed 2	Doors shall not be locked in the direction of egress under any conditions. All existing hasps, locks, slide bolts, and other locking devices shall be removed unless provided in 6.8.2.2 and 6.8.2.3. in accordance with RSC standard 6.8.2.1	Immediate
				

F-6	Means of Egress	Egress discharges are not free from unusual unsealed penetrations and openings (Exhaust fans, AC Outdoor, windows, Spray Room etc.) Location: Shed 1, Shed 2 and Shed 6)	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. Remove Steam Pipe/ cable raceway/busbar riser/ plumbing pipes and electrical pipes from the exit stair enclosures. Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 1 month
				
F-7	Means of Egress	Egress path walking surface at the outdoor surrounding the building are uneven and unpaved. Location: Shed 1 and Shed 2.	Abrupt changes in elevation of walking surfaces shall not exceed ¼ in. unless provided with a beveled slope of 1 in 2 that do not exceed ½ in. Changes greater than ½ in. shall meet the requirements for 6.3.5. in accordance with RSC standard 6.3.4.1	Within 3 months



F-8	Means of Egress	Aisles marking has not been provided on the floor properly. Location: Shed 2	Provide minimum aisle widths of 36-in.	Within 1 months
				
F-9	Means of egress	Travel distance in the floor area exceeds 45 meter (150 ft). Location: Shed 2	Exits shall be arranged in such a manner that the travel distance from any point in the area served shall not exceed 45 m for Production floor (Occupancy G) in accordance with BNBC 2006 Part 4, 3.15.1	Within 1 month
				

F-10	Means of egress	Sheds did not have occupant load signs at the required locations. Location: Shed 1 and 2	Provide stair designation signs and occupant load signs at 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: B#1: New Production Building, 8th 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	Emergency Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month
				
F-13	Fire Alarm & Detection system	Fire alarm system is antiquated and non-listed. Stand-alone detector with manual fire alarm was observed.	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, Accord/ 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/modification within 4 months

				
F-14	Fire Alarm & Detection system (ITM of FADS)	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	Within 1 month (after installation)
F-15	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
F-16	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) and keep written records on-site.	Within 3 months

F-17	Human Element Program	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month
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