

# INITIAL FIRE SAFETY INSPECTION REPORT

**Dhakarea Ltd (Extension)**

**RSC ID: 25507**

**Address: Plot 23-27, (New) DEPZ Extension Zone, Ganakbari, Ashulia, Savar**

Co-ordinate: 23.949793, 90.281419

**Other Factories: Dhakarea Ltd (RSC ID: 10948)**



**Inspected By: Tanvir Jubayer Rahman , A N Faisal Ahmed**

**Date: 22-Jan-2024**

# Fire Safety Inspection Report

## Dhakarea Ltd (Extension)

### Introduction:

**Dhakarea Ltd (Extension)** complex was surveyed for fire safety on **22-Jan-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 compound has a total seven (07) buildings. 05 nos buildings (3 main building & 2 Ancillary building) were covered under RSC ID : 10948. The remaining building are as below:

**1. Building-4 ; 4 storied RCC Construction ; Area Approx 4368 sqm.**

Construction duration: July, 2015 to Nov, 2016 . Occupied: July, 2017. **(INTERIM CONSTRUCTION)**

**2. Fire Pump room; Single storey RCC Building ; Area Approx 56 sqm.**

Construction duration: July, 2015 to Nov, 2016 . Occupied: July, 2017. **(INTERIM CONSTRUCTION)**

**Factory Address:** Plot 23-27, (New) DEPZ Extension Zone, Ganakbari, Ashulia, Savar

## 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	<p>Areas used for combustible storage open to the factory are not separated by fire rated construction or not maintain as per standard.</p> <p><b>Location: 3rd floor &amp; 1st floor.</b></p>	<p>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 1 hr. fire rated fire rated barrier construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</p> <p>- If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m<sup>2</sup> (1000 ft<sup>2</sup>).</p> <p>-In process storage shall be limited to 10 percent of the building area of the story in which they occur.</p>	Within 3 Months



F-2	Fire Rated Construction	Connecting bridge with Building-01 at 1st floor is not separated by fire-rated construction due to non-functional fire door interface with FACP & non-rated opening.	Separate the buildings by minimum 2-hr fire-rated construction least one side of the connecting bridge. Provide 1.5 hr. fire rated door and seal all penetrations and openings between the exterior connecting bridge and the building up to 10 ft. beyond the end of the connecting bridge by 2 hr. fire rated construction.	Within 3 Month
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F-3	Fire Rated Construction	Liquid fuel drum were found at LT panel room without proper fire separation & exit path from LT Panel room is not protected from conveyer belt area.	<p>Either separate the fuel store from LT panela by 3-hr fire separation.</p> <p>Or ,</p> <p>Remove the Storage of liquid fuel from LT panel room.</p> <p>Provide a safe exit discharge path from LT panel room.</p>	Within 3 months
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F-4	Emergency Lighting	Emergency light weren't provided and adequate illumination levels are not anticipated along egress routes and at exit stairs.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 month
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F-5	Mean of Egress	<p>Secondary exit does not provided where violets RSC standard.</p> <p><b>Location: 3rd floor (S-W) idle machine store &amp; 2nd floor (S-W) S. Band material room.</b></p>	<p>The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by 6.6.2, a single means of egress is permitted by 6.6.5 or where a greater number is required by 6.6.3. (RSC Technical Guidelines (Standard).</p> <p>Provide a secondary exit following RSC Technical Guideline 6.6.6.</p>	Within 3 Months
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F-6	Fire Alarm & Detection system	Automatic fire alarm and detection system is going on. FADS required a detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	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.	Design Review within 2 months and installation/modification within 4 months
F-7	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-8	Fire Protection System (Standpipe )	A Standpipe system was found ongoing installation in the factory, which is required to be reviewed and verified.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC standard and NFPA 14,20,22 and 24. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation/modification within 4 months

F-9	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not 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/modification )
F-10	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not 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/modification )
F-11	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 1 month