

INITIAL FIRE SAFETY INSPECTION REPORT

YP Ashulia Ltd.

RSC ID: 25529

Factory Address: Jamgora Bottola (Moyna Market), Gorat Bagbari Road, Gazirchat Aliya Madrasha, Ashulia

Other Factories: None



Inspected By: Ahammad Kabir & Mahbub Alam Sami

Date: 4th March 2024

Fire Safety Inspection Report

YP Ashulia Ltd.

Introduction:

"YP Ashulia Ltd." complex was surveyed for fire safety on **04 March 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):

- 01. Building-1 (Main Factory Building),
- 02. Building-2 (Compressor Building),
- 03. Building-3 (Office Building),
- 04. Building-4 (Generator Building),
- 05. Building-5 (Jhute store).

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Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. 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	Storage room directly discharge to exit stair enclosure at several locations. Location: Main building.	Openings from exit enclosure to storage and machine room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage and machine room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 2 months
 				

F-2	Fire Rated Construction	Elevator shafts are directly open into exit enclosure and floors. Location: Main building.	Ensure minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with 2-hr fire rated construction barrier and 1.5-hr fire rated doors. So, rearrange the facility to provide separate enclosure for lifts. If not possible anyway provide a minimum 2-hr fire- rated elevator shaft with listed fire rated lift landing door to separate from each floor level.	Within 3 months
 				

F-3	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to PVC Plumbing Pipes, Conveyar Belt & Power Cables. Location: Main building.	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 guideline. (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 3 months
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F-4	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location: the main building, compressor and dining building and office building.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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 3 months
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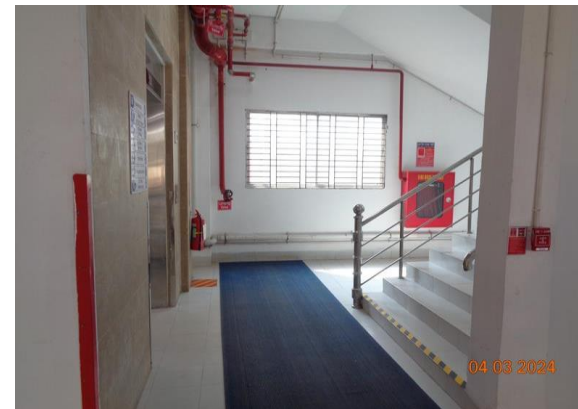
F-5	Fire Rated Construction	The dining area (E3) is not separated from adjacent floor area by fire rated construction. Location: 6th Floor, Main Production Building.	The dining area (E3) is not permitted with moderate hazard occupancies (G2) following table 3.2.1 of BNBC-2006. Reduce the dining capacity to E4 (Small Assembly without fixed seats, less than 300 persons). Or, relocate the dining area from production floor to anywhere else which meets the BNBC-2006 table 3.2.1	Within 3 months
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F-6	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures. Location: Ground floor of main building.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
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F-7	Fire Rated Construction	Expansion joints are open to all the production floors of the Building . Location: Main Production Builing (1st to 6th Floor).	Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with an approved material having the same degree of fire resistance as that of the wall or floor in which it is installed.	Within 3 months
 				
F-8	Means of Egress	The exit stair-1(N-E) & stair-2(N-W) do not discharge directly to the outside of the building. They discharge at loading unloading area instead of discharging directly to the outside of the building. Location: Main building.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or, Provide sprinkler protection for discharge floor in accordance with NFPA 13 and RSC Technical Guidelines Standard V1.0_Section 6.17.3.	Within 3 months



F-9	Means of Egress	A single means of egress is provided at 7- Storied Dining & Compressor Building.	Provide minimum 2 exits and stairs for this building from roof top to ground floor.	Within 2 month

F-10	Means of Egress	The exit discharge path is less than 10 ft. wide and is not separated from the building interior at West side of the building. Location: Main building.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation. Or Provide alternate safe discharge path.	Within 2 month
 				
F-11	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.). Location: Main Production Building & 2-Storeyed Office Building	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 2 month

 				
F-12	Means of Egress	Egress door on exit discharge serving 50 or more occupants but does not swing in the direction of egress travel. Location: Main building.	Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 shall swing in the direction (out-ward) of egress travel .	Within 1 month



F-13	Means of Egress	Collapsible gates/ sliding doors/ rolling shutter doors are provided at building exit. Location: Generator & Sub-Station Building.	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
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F-14	Means of Egress	Building did not have stair designation signs and occupant load signs at all required locations. Location: Main building & Compressor building.	Provide stair designation signs and occupant load signs at all the required locations.	Within 1 month
F-15	Means of Egress	Exit stairs serve more than 5 stories and do not have required Re-Entry provisions on all floors. Location: Main building & Compressor building.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC standard 6.8.3.1.	Within 1 month

F-16	Means of Egress	No guard rails are provided at the required locations which may pose a falling hazard. Location: Roof top Stair landing of Stair-5 (S-W) & 7-Storeyed Dining & Compressor Building (all floors).	Provide guard rails on open side with minimum height 42 inch.	Within 1 month
 				
F-17	Fire Alarm & Detection System (FADS)	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA-72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design within 02 months, installation/modification on within 04 months

F-18	Fire Detection ITM	Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month after installation
F-19	Fire Protection System	Fire Fighting System (Standpipe & Sprinkler System) installed and requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 & RSC Technical Guidelines (Standard). Location: Main building & Compressor building.	Sprinkler system is not mandatory for the building based on height and type of construction but the Sprinkler System installed for the building along with standpipe system. Both the system requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 24 and RSC Technical Guidelines (Standard). Submit as-built drawings, calculation, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) is required to be done as per the reviewed design and relevant standard.	Design within 02 months, installation/modification on within 04 months
F-20	Standpipe ITM	Inspection, testing and maintenance of the Standpipe system is not found in accordance with NFPA 14.	Inspect, Test & Maintain Standpipe System and keep written record as per NFPA 14 & NFPA 25.	Within 1 month after installation

F-21	Sprinkler ITM	Inspection, testing and maintenance of the Sprinkler system is not found in accordance with NFPA 13.	Inspect, Test & Maintain Standpipe & Sprinkler System and keep written record as per NFPA 13 & NFPA 25.	Within 1 month after installation
F-22	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not found in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 and RSC standards.	1 month after installation
F-23	Fire Extinguishers ITM	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 RSC standards.	Within 1 month
F-24	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Main building	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-25	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 02 months
F-26	Emergency Lighting ITM	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 1 month