

FIRE SAFETY INSPECTION REPORT

Lantabur Apparels Ltd. (Extended Unit)

RSC ID: 24299

Google Coordinate: 24.197931, 90.406757
Kewa, Boherarchala, Gilaberaed, Sreepur, Gazipur-1740.

Other Factories in the premises: None



Inspected By: Md. Zahidul Islam, Yusuf Ahmed
Date: 29-DEC-2021

Fire Safety Inspection Report

Lantabur Apparels Ltd. (Extended Unit)

Introduction:

Lantabur Apparels Ltd. (Extended Unit) complex was surveyed for fire safety on 29/12/2021 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 Accord. 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 Accord 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.

Findings & Recommendations :

The below table summarizes the major fire safety issues identified during the inspection of all building. 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 approval.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Building-01: The exit stairs are not separated from [work areas, other spaces] 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. 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 ACCORD standard 6.8.3.1 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

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-02	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Building-04	Provide defined storage areas and limit the storage arrangement as follows:- 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. 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 - Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 		
F-03	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations)	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	Within 3 months
		  		

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-04	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed (Electrical Riser, Sanitary Pipe)	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
				
F-05	Fire Rated Construction	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 3 months
F-06	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Immediately

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-07	Egress	The new door width was less than 1 m (39 in.).	New doors in a means of egress shall have a minimum width of 1 m (39 in.).	Within 3 month
F-08	Egress	Re-entry was not provided as per Accord Building Standard 6.8.3.1	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets the requirements of 6.8.3.1.	Within 3 month
F-09	Egress	Floor no., occupant load, stair designation sign were not present in the exit stairs	Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors	Within 1 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-10	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and Accord Standard.	Submit as build drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 4 months, Install within 6 months
F-11	ITM of Fire Alarm & Detection system	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and ACCORD standards.	Within 1 month (after installation)
F-12	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade requires detailed review to confirm compliance with NFPA 14, 20, 22 and Accord Standard.	Provide standpipe system throughout the building in accordance with NFPA 14, 20, 22 & Accord standard.	Design within 4 months, Install within 6 months
F-13	ITM of Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards (After installation).	Within 1 month (after installation)
F-14	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 ACCORD standards.	Within 3 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-15	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month
F-16	Fire Rated Construction	Building-02 The exit stairs are not separated from [work areas, other spaces] 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. 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 ACCORD standard 6.8.3.1 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

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-17	Structural Fire Protection	Since the structure is steel-composite type and all the RCC panels are resting on the steel columns and the guarders. Hence, each floor of the building is not separated by a fire resistive rated construction barriers.	Provide fire resistive construction barriers between floors 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.	Design within 4 months, implementation within next 6 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
		 		
F-18	Fire Rated Construction	Elevator shaft is open into an exit stair enclosure and vestibules not provided for storage areas.	Openings into an exit enclosure other than unprotected exterior walls shall be limited to those necessary for exit access to the enclosure. In new construction, elevators shall not open into an exit enclosure. Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules according to ACCORD standard 6.14.3.	Within 3 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-19	Egress	Exits are not remotely located from each other. Location: Embroidery, Diagonal Distance: 124 feet, Exit to exit distance: 54 feet.	Modify exit arrangement or Provide additional exit(s) or Provide automatic sprinkler system throughout the building as per NFPA 13	Within 3 months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-20	Egress	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 3 months
F-21	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Immediately
 The first photograph shows a red exit door with a green illuminated sign above it. The second photograph shows a staircase with a large stack of cardboard boxes obstructing the path. The third photograph shows a staircase with a large stack of cardboard boxes obstructing the path.				
F-22	Egress	The egress path along means of egress has interrupted by obstruction/storage.	Means of egress shall be maintained continuously free and clear of all obstructions/storage. Or Keep egress paths and stairs clear of storage.	Immediately

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-23	Egress	Floor no., occupant load, stair designation sign were not present in the exit stairs	Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors	Within 1 month
F-24	Egress	The clearance under the bottom of the doors were more than of 3/4 in. (19 mm).	The clearance under the bottom of the doors shall be a maximum of 3/4 in. (19 mm).	Within 1 month
F-25	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and Accord Standard.	Submit as build drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 4 months, Install within 6 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-26	ITM of Fire Alarm & Detection system	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and ACCORD standards.	Within 1 month (after installation)
F-27	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade requires detailed review to confirm compliance with NFPA 14, 20, 22 and Accord Standard.	Provide standpipe system throughout the building in accordance with NFPA 14, 20, 22 & Accord standard.	Design within 4 months, Install within 6 months
F-28	ITM of Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards (After installation).	Within 1 month (after installation)
F-29	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 ACCORD standards.	Within 3 month
F-30	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-31	Fire Rated Construction	Building-03 The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. Toilet areas were in the stair enclosure.	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. 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 ACCORD standard 6.8.3.1 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
  				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-32	Fire Rated Construction	Elevator is open into an exit stair enclosure.	Openings into an exit enclosure other than unprotected exterior walls shall be limited to those necessary for exit access to the enclosure. In new construction, elevators shall not open into an exit enclosure. Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules according to ACCORD standard 6.14.3.	Within 3 months
				

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-33	Structural Fire Protection	Since the structure is steel-composite type and all the RCC panels are resting on the steel columns and the guarders. Hence, each floor of the building is not separated by a fire resistive rated construction barriers.	Provide fire resistive construction barriers between floors 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.	Design within 4 months, implementation within next 6 months
				
F-34	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

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-35	Egress Lighting	Exit sign not provided at exit. Locations: MD's room	Provide exit signs above all exits to the exterior and all doors to the exit stair.	Within 1 month
F-36	Egress Lighting (ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 1 month
F-37	Fire Alarm & Detection System (FADS)	Fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Modification (if required) shall have to be done as per the reviewed design and NFPA-72. Upon review & modification (if required) the owner shall verify the system by himself and apply RSC for final acceptance testing.	Design within 4 months, Install within 6 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-38	ITM of Fire Alarm & Detection System (FADS)	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-39	Fire Suppression System	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and ACCORD standards.	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 be done as per the reviewed design and NFPA-14 Upon review & modification (if required) the owner shall verify the system by himself and apply RSC for final acceptance testing.	Design within 4 months, Install within 6 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-40	Standpipe ITM	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25 and ACCORD standards.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 1 month (After installation)
F-41	Fire Pump ITM	Inspection, testing and maintenance of the fire pump is not in accordance with NFPA 25 and ACCORD standards.	Inspect, test and maintain the fire pump and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 1 month (After installation)

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-42	Fire Rated Construction	Building-4 The exit stairs are not separated from [work areas, other spaces] 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. 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 ACCORD standard 6.8.3.1 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
F-43	Fire Rated Construction	Fuel tank was more than 2500 L (660 gal) located in a generator building.	Fuel tanks shall be limited to a maximum 2500 L (660 gal) when located in a building with other occupancies. Exhaust shall be in accordance with NFPA 37. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-44	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Immediately
				
F-45	Egress	Ramps not provided with handrails on both sides of the ramp.	Ramps shall be provided with handrails on both sides of the ramp.	Within 1 Month

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-46	Fire Alarm & Detection system	Fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards. (For building-4,7,8)	Submit as build drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 4 months, Install within 6 months
F-47	ITM of Fire Alarm & Detection system	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and ACCORD standards.	Within 1 month (after installation)
F-48	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 ACCORD standards.	Within 3 month
F-49	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-50	Structural Fire Protection	Building-06 Since the structure is steel-composite type and all the RCC panels are resting on the steel columns and the guarders. Hence, each floor of the building is not separated by a fire resistive rated construction barriers.	Provide fire resistive construction barriers between floors 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.	Design within 4 months, implementation within next 6 months
				
F-51	Egress	Common path of egress travel exceeds 23 meter.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 meter.	Within 3 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-52	Egress	Travel distance to reach an exit exceeds the values listed in BNBC Part 4 Section 3.15.1	Reconfigure the egress arrangement so that travel distance to reach an exit meets the values listed in BNBC Part 4 Section 3.15.1	Within 3 months
F-53	Egress Lighting (ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 1 month
F-54	Fire Alarm & Detection System (FADS)	Fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Modification (if required) shall have to be done as per the reviewed design and NFPA-72. Upon review & modification (if required) the owner shall verify the system by himself and apply RSC for final acceptance testing.	Design within 4 months, Install within 6 months

SI No.	Category	Findings	Required Action	Remediation Time Frame
				
F-55	ITM of Fire Alarm & Detection System (FADS)	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)