

INITIAL FIRE SAFETY INSPECTION REPORT

Modele De Capital Ind. Ltd. (Unit 2)

RSC ID: 24433

No 2 Hajiganj, Narayanganj, Bangaldesh

Geographical Coordinates of factory building: 23.635825,90.512186

Other Factories: No



Inspected By: Dilip Kumar Mondal and Yusuf Ahmed

Date: 27 June-2022

Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection of main 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.

Table-1:				
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Transformer, generator, boilers, and compressor room are not properly separated from each others by fire rated construction. Location: Utility Shed-3.	Separate the transformer, generator, boiler, and compressor room by a minimum 2-hr fire rated constructions. Seal and/or protect all opening to maintain the required fire separation. Provide proper ventilation system with consult a qualified engineer. Follow the RSC Technical Guidelines (Standard)-3.4.2.1	Within 3 months
				

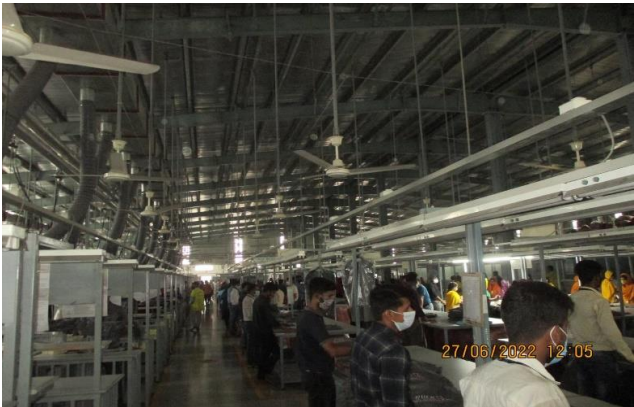
F-02	Fire Rated Construction	Liquefied or compressed gas cylinders were located inside boiler room for boiler usages. Location(s): Shed-3.	The RSC Technical Guidelines (Standard) Section 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building. Alternatively: 1. The storage building must be at least 3 meters away from any other buildings and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB).	Within 3 months
 				

F-03	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Shed-1	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 month
 				
F-04	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-05	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and in accordance with The RSC Technical Guidelines (Standard).	Submit as built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Within 3 months
  				

F-06	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 The RSC Technical Guidelines (Standard).	Within 1 month (after installation)
F-07	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 in accordance with The RSC Technical Guidelines (Standard).	Within 3 month
F-08	Egress Lighting	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-09	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units. Locations: Shed-1	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month
				

F-10	Emergency light and Exit Sign	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location-Shed-1	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 month
				
F-11	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 RSC Technical Guidelines (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 3 month