

INITIAL FIRE SAFETY INSPECTION REPORT

International Trading Services Ltd (Extension)

RSC ID: 25611

23.998874, 90.326812

Civil Engineers City 4th. 5th & amp; 7th Floors Jarun Konabari Gazipur Sadar Gazipur.

Other Factory : International Trading Services Ltd [ID-10409]



Inspected By: Mohammad Anayet Hossain, Md. Sadid Rahman & Asma Siddique

Date: 18-Mar-2024

Fire Safety Inspection Report

International Trading Services Ltd (Extension)

Introduction:

International Trading Services Ltd (Extension) complex was surveyed for fire safety on **18-Mar-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):

SL	Building Name/ Purpose	Construction Time	Construction Period
01	Finishing Shed / Production	Jul-2019 to Jun-2022. Occupy- Oct-2023	Interim Construction
02	Shed-1 (Steel Structure) / Warehouse	Dec- 2010 to Mar-2011. Occupy- Apr-2011	Existing Construction
03	Shed-2 (Steel Structure) / Warehouse	Feb-2011 to May-2011. Occupy -May-2011	Existing Construction
04	Shed-3 (Steel Structure)/ Warehouse	Feb- 2011 to May- 2011. Occupy -May-2011	Existing Construction
05	Shed-4 (Steel Structure)/ Office	Jun-2011 to Sep-2011. Occupy- Sep-2011	Existing Construction
06	Shed-5 (Steel Structure)/ Workshop	Sep-2011 to Jan-2012. Occupy- Jan-2012	Existing Construction
07	Shed-6 (Steel Structure)/ Storage	Sep-2011 to Dec-2011. Occupy- Jan-2012	Existing Construction
08	Shed-7 (Steel Structure)/ Idle machine room	Jan-2012 to Mar-2012. Occupy- Mar-2012	Existing Construction
09	Shed-8 (Steel Structure)/ Storage	Jan-2012 to Mar-2012. Occupy- Mar-2012	Existing Construction
10	Shed-9 (Steel Structure)/ Chemical store	Apr-2012 to Jul-2012. Occupy -Jun-2012	Existing Construction
11	Shed-10 (Steel Structure)/ Storage	Jul-2012 to Oct-2012. Occupy- Oct-2012	Existing Construction
12	shed-11 (Steel Structure)/ Machine storage	Jul-2012 to Sep-2012. Occupy- Sep-2012	Existing Construction
17	ETP Building	Sep-2010 to Apr-2012. Occupy-May-2012	Existing Construction
18	WTP	Feb-2012 to Apr-2012. Occupy- Apr-2012	Existing Construction
19	RRP / Water Recycle & reuse	Sep-2019 to Nov-2019. Occupy- Nov-2019	Interim Construction
20	Stone station & dry sludge shed	Oct-2023 to Jan-2024. Occupy- Feb-2024	New Construction
21	kitchen Shed	Oct-2010 to Jan-2011. Occupy- Jan-2011	Existing Construction
22	Dining & Canteen Shed	Jul-2009 to Aug-2009. Occupy- Aug-2009	Existing Construction
23	Jhute Shed (Steel Structure)/ Jhute,Wastage materials	Apr-2009 to Jun-2009. Occupy -Jun-2009	Existing Construction
24	Police camp	Apr- 2009 to Jun-2009. Occupy- Jun-2009	Existing Construction
25	PP pump room / Pressure pump room	May-2009 to Jul-2009. Occupy- Jul-2009	Existing Construction
26	Washing shed (Steel Structure)/ Washing	May-2009 to Jul-2009. Occupy- Jul-2009	Existing Construction
27	Guard room-1	Jan-2009 to Apr-2009. Occupy -Apr-2009	Existing Construction
28	Guard room-2	Jan-2009 to Apr-2009. Occupy -Apr-2009	Existing Construction
29	Security control & dispatch room	Feb-2009 to May-2009. Occupy -May-2009	Existing Construction

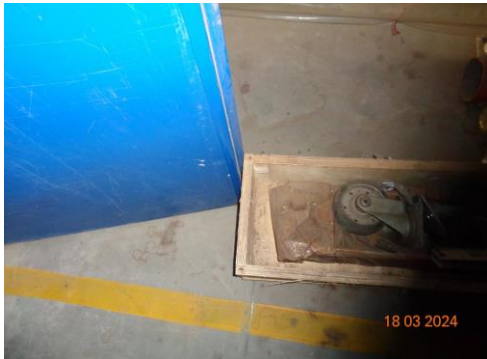
Findings & Recommendations :

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 Number	Total Findings	Building Name	Finding Range	Remarks
1	18	Finishing Shed, Washing Shed, Shed-1,2,3,4,5,6,7,8,9,10,11, ETP,WTP,RRP, Stone station & dry sludge shed, kitchen Shed, Dining & Canteen Shed, Jhute Shed, Police camp, PP pump room, Guard room-1 , Guard room-2, Security control & dispatch room	1-18	

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	Exit doors are provided with 2 hr. fire rated doors however fire door accessories (door coordinator, door closer, latching system, magnetic door holder) are not working as required and several fire doors were kept open by external force. (Throughout the building) . Moreover unprotected openings found at stair enclosure. Location: Finishing Shed.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire 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 RSC Technical Guidelines (Standard) V1- 6.8.3.1. Factory shall ensure the integrity of the fire rated door through actual datasheet, certificate and listing labeling.	Within 3 months
 				

F-2	Fire Rated Construction	Catwalk has been constructed on High rack storage and the area of the intermediate deck creates a full floor where the size of the deck is more than 33% of the total floor area so as requires fire rated separation. Location: Shed-2,3 and 6.	Maintain fire separation (3hr for type 1) between floor to floor as per BNBC 2006 Table 3.3.1. Provide required fire rating on the structural elements by following Table-3.2.4, 3.1.9 & Table 4.4.1 of the RSC Technical Guidelines Standard or Table 3.3.1 of BNBC-2006. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members. Factory shall submit all required product datasheet, installation design along with design philosophy to RSC for review prior to installation on site.	Within 3 months
 				

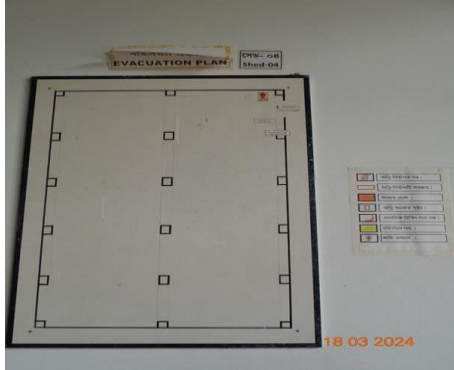
F-3	Fire Rated Construction	Multiple Shed has been found as pre fabricated steel construction. The main structural element of the buildings are constructed by steel which is appears to be nonrated and were found in exposed condition. Location: Finishing Shed	Interim building shall be type-1 or type-2 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-4	Fire Rated Construction	Elevator shafts are directly open into the production floor without proper fire separation (Doors are not fire rated). Located: Finishing Shed.	Provide a minimum 2-hr fire rated construction to separate the elevator shaft from each floor level. Seal all penetrations and openings in floors/ceiling assemblies to maintain the fire separation.	Within 3 months
 				

F-5	Fire-Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: Finishing Shed and Shed-4	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. 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 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2).	Within 3 months
 				

F-6	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Shed 04	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 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.	Within 3 months
 				

F-7	Means of Egress	Sliding doors are provided at building exits. Location: Finishing Shed	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
				

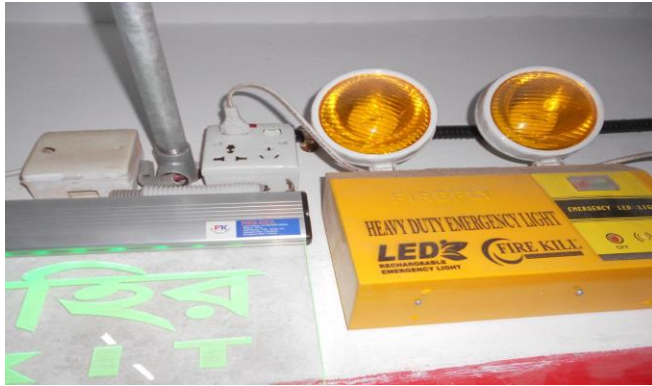
F-8	Means of Egress	A single means of exit has been provided on the occupied area where travel distance has been found 130 feet. Location: Shed-4	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard)-6.6.2, a single means of egress is permitted by RSC Technical Guideline (Standard)-6.6.5 or where a greater number is required by RSC Technical Guideline (Standard)-6.6.3. For Basement/Ground floor 1. Maintain maximum 50 occupants having a travel distance of 23m (75 ft). Or Provide additional exit. For First Floor: Maintain maximum 30 occupants having a travel distance of 23m (75 ft) for occupancy F,G & H only. Or Provide additional exit.	Within 3 months
 				

F-9	Means of Egress	The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft). Location: Shed 9	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 8 meter.	Within 3 months
 				

F-10	Means of Egress	Width of aisle is less than 0.9m (36-in.) and some cases not marked properly at several location. Location: Shed-1,2,3,4,5,6,7,8,9,10,11, ETP,WTP,RRP, Stone station & dry sludge shed, kitchen Shed, Dining & Canteen Shed,	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in) and mark the aisle properly.	Within 1 month
				

F-11	Means of Egress	Stair has not been provided for some exits of several shed which indicates presence of falling hazard. Location: Shed-5,6 and 7.	Provide stair with required landing, Treads, handrails or guard as per 6.9 of RSC Technical Guidelines Standard.	Within 1 month
 				

F-12	Emergency Lighting	Exit signage was not provided along a path of egress. Location: All floors of the building	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
F-13	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-14	Means of 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
F-15	Inspection, testing, and maintenance	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.
F-16	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 1 months, installation/modification on within 3 months



F-17	Inspection, testing, and maintenance	Inspection, testing and maintenance of the addressable fire alarm and detection system is not in accordance with NFPA 72.	Inspect, test and maintain the addressable fire alarm and detection system and keep written records on- site, in accordance with NFPA 72 and RSC standards.	Within 1 month
F-18	Inspection, testing, and maintenance	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 3 month