

INITIAL FIRE SAFETY INSPECTION REPORT

KNIT CONCERN LTD. (EXTENSION)

RSC ID: 25933

Address: 62, Water Works Road, Godnail, Narayangonj.

GPS: 23°38'27.4"N 90°30'49.3"E

Other Factories: KNIT CONCERN LTD. [RSC ID-9499]



Inspected By: Md. Kamrul Hasan & Al-Shahriar Shovon

Date: 22-Jan-2025

Fire Safety Inspection Report

KNIT CONCERN LTD. (EXTENSION)

Introduction:

KNIT CONCERN LTD. (EXTENSION) complex was surveyed for fire safety on **22-Jan-2025** 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): There are total 12 nos of structures in the factory compound under this RSC ID-25933. The descriptions of the buildings in the table on the following page.

S/N	Building Name	Structure type (Storey)	Year of construction	Date of Occupy	Approval Date & Authority	Construction Category	Area (square meter)
1	Building-6 (Compressor, fire panel & pump room Building)	Prefabricated Steel (B+G+1)	B+G Floor= Aug-2018 to Nov-2018 1st Floor= May-2024 to Jul-2024	B+G Floor= Jan-2019 1st Floor= Aug-2024	14-Nov-2016 (Narayanganj City Corporation)	Interim Construction	264
2	Chemical Godown Shed	Prefabricated Steel (G+1)	Jan-2006 to Mar-2007	May-2007		Existing Building	2790
3	Raw Fabric Store Shed	Prefabricated Steel (G+1)	Jun-2004 to Jan-2005	Mar-2005	15-Oct-2015 (Narayanganj City Corporation)	Existing Building	2790
4	Yarn Godown Shed	Prefabricated Steel (G+1)	Feb-2006 to Jul-2006	Sep-2006		Existing Building	2806
5	Diesel Generator & Chiller Building	G+1 RCC 2nd Floor Steel Shed	May-2012 to Oct-2012	Jan-2013	10-Apr-2016 (Narayanganj City Corporation)	Existing Building	413
6	Yarn Dyeing Shed	Prefabricated Steel (G+2)	Dec-2006 to Jan-2008	May-2008		Existing Building	9666
7	Dyeing KCL Shed	Prefabricated Steel (G)	Apr-2005 to Sep-2005	Jan-2006		Existing Building	9136
8	New Fabric Godown Shed	Prefabricated Steel (G)	Mar-2006 to Jul-2006	Sep-2006	14-Nov-2016 (Narayanganj City Corporation)	Existing Building	362
9	Thermal boiler Shed	Prefabricated Steel (G)	Apr-2013 to Aug-2013	Oct-2013	04-Nov-2024 (Narayanganj City Corporation)	Existing Building	124
10	Boiler & Generator Shed	Prefabricated Steel (G+M)	Oct-2007 to Jan-2008	Apr-2008	14-Nov-2016 (Narayanganj City Corporation)	Existing Building	387
11	Sub-Station (DPDC) Room	RCC (G)	Mar-2008 to Jul-2008	Aug-2008		Existing Building	104
12	Security Room	RCC (G)	May-2013 to Aug-2013	Aug-2013		Existing Building	40

Factory Address: 62, Water Works Road, Godnail, Narayanganj.

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
1	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Yarn Dyeing Shed)	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. 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
 				

2	Fire Rated Construction	Elevator shafts and lift machine room are directly open into the floors. (Yarn Dyeing 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 required fire separation.	Within 3 months
 				
3	Fire Rated Construction	The second, first & ground floor is not separated from each other by fire rated construction. (Yarn Dyeing Shed)	Separate each floor by fire rated construction as per BNBC-2006, Part-3, chapter-3 and Table 3.3.1	Within 3 months



4	Fire Rated Construction	The compressor room is not separated by fire rated construction due to openings, non-rated doors with the production area. (Yarn Dyeing Shed)	Separate the compressor rooms by a minimum 1-hr fire-rated construction for non-high rise building, and 2-hr fire rated construction for high rise building. Seal and/or protect all openings to maintain the required fire separations. When located to the exterior of a building, 3m (10 ft.) spatial distance shall be maintained around the compressor. Ensure proper ventilation for the compressor room.	Within 3 months
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5	Means of Egress	Exit Stairs discharge the occupant inside the building on the ground floor. (Yarn Dyeing Shed)	1. Modify stair to discharge directly outside. - Or 2. Provide 1-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.	Within 3 months



6	Fire Rated Construction	In-process store areas are not maintained as per standard and open to the production area on the 1st & 2nd floor. (Yarn Dyeing Shed)	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). - In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 3 months
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7	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction on the ground floor. (Yarn Dyeing Shed)	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
				

8	Fire Rated Construction	Chemical storage are not properly separated by fire rated construction. (Ground floor at Yarn Dyeing Shed)	Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least 4-hour. Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13. or, Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006)	Within 3 Months
 				
9	Means of egress	Fire evacuation maps were not posted at all the required locations. (Yarn Dyeing Shed)	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month

10	Means of Egress	Sliding doors are provided at building exits. (Yarn Dyeing Shed)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
				
11	Means of egress	Building did not have occupant load signs at all the required locations. (Yarn Dyeing Shed)	Provide occupant load signs at required locations.	Within 1 month
12	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). (Yarn Dyeing Shed)	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

13	ITM of Fire Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. (Yarn Dyeing Shed)	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation
14	Fire Protection System (Standpipe)	3-Storied Yarn Dyeing Shed is constructed by steel which is non-rated and were found in exposed condition. The construction period is existing and per floor area is more than 22,000 sft. So that standpipe system along with sprinkler system is mandatory for the 3-Storied Yarn Dyeing Shed. (Yarn Dyeing Shed)	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14, 20, 22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 month and installation within 4 months
15	Fire Protection System (Sprinkler)	3-Storied Yarn Dyeing Shed is constructed by steel which is non-rated and were found in exposed condition. The construction period is existing and per floor area is more than 22,000 sft. So that standpipe system along with sprinkler system is mandatory for the 3-Storied Yarn Dyeing Shed. (Yarn Dyeing Shed)	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify (if required) the sprinkler system throughout the building in accordance with review comment, RSC Standard and NFPA 13,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 month and installation within 4 months
16	ITM of Standpipe System	Inspection, testing and maintenance for the standpipe system was not in accordance with standard. (Yarn Dyeing Shed)	Inspect, test and maintain the standpipe system in accordance with of NFPA 25 and keep written records on-site.	Within 1 Month after installation

17	ITM of Sprinkler System	Inspection, testing, and maintenance for the sprinkler system is not in accordance with NFPA 25, 13 or as per RSC standard. (Yarn Dyeing Shed)	Inspect, test and maintain the sprinkler system and keep written records on-site, in accordance with NFPA 25, 13 or as per RSC standard.	Within 1 Month after installation
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18	Fire Rated Construction	In-process store areas are not maintained as per standard and open to the production area. (Dyeing KCL Shed)	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). - In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 3 months
 				

19	Fire Rated Construction	Dyeing KCL Shed (Existing Structure) is attached with 8-storied RCC building (RSC ID: 9499) which is a high rise building; additionally, both the shed and the building share the same egress arrangements, placing them within the same fire compartment. The main structural elements of the Dyeing KCL Shed are constructed of steel, which is non-rated and were found in exposed condition without any fire protection. Type-III and nonrated construction shall not be allowed for existing high-rise buildings. (Dyeing KCL Shed)	The building shall be constructed as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1. Consult a qualified fire protection engineer to achieve the require fire rating.	Within 6 Months
				

20	Fire Rated Construction	The required fire separation distance for Dyeing KCL Shed does not comply with the requirements of BNBC 2006. (Dyeing KCL Shed)	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
21	Means of egress	Fire evacuation maps were not posted at all the required locations. (Dyeing KCL Shed)	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
22	Means of Egress	Sliding doors are provided at building exits. (Dyeing KCL Shed)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
				

23	Means of egress	Building did not have occupant load signs at all the required locations. (Dyeing KCL Shed)	Provide occupant load signs at required locations.	Within 1 month
24	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). (Dyeing KCL Shed)	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
25	Fire Protection System (Standpipe)	The Dyeing KCL Shed is physically connected to an 8-storied RCC building (RSC ID: 9499), with the highest occupiable floor exceeding 33 feet. As both structures share common egress arrangements, they are considered part of the same fire compartment. Consequently, the installation of a standpipe system is required for the Dyeing KCL Shed (Dyeing KCL Shed)	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14, 20, 22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 month and installation within 4 months

26	Fire Protection System (Sprinkler)	The Dyeing KCL Shed is physically connected to an 8-storied RCC building (RSC ID: 9499) which requires sprinkler system as the highest occupiable floor level is more than 75 feet. As both structures share common egress arrangements, they are considered part of the same fire compartment. So, sprinkler system is required for dyeing KCL shed. (Dyeing KCL Shed)	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify (if required) the sprinkler system throughout the building in accordance with review comment, RSC Standard and NFPA 13,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 month and installation within 4 months
				

27	ITM of Fire Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. (Dyeing KCL Shed)	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation
28	ITM of Standpipe System	Inspection, testing and maintenance for the standpipe system was not in accordance with standard. (Dyeing KCL Shed)	Inspect, test and maintain the standpipe system in accordance with of NFPA 25 and keep written records on-site.	Within 1 Month after installation
29	ITM of Sprinkler System	Inspection, testing, and maintenance for the sprinkler system is not in accordance with NFPA 25, 13 or as per RSC standard. (Dyeing KCL Shed)	Inspect, test and maintain the sprinkler system and keep written records on-site, in accordance with NFPA 25, 13 or as per RSC standard.	Within 1 Month after installation

30	Fire Rated Construction	Thermal Boiler is not separated by fire rated construction from the Dyeing KCL Shed. (Thermal boiler Shed)	Any room or space housing boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building.	Within 3 months
				

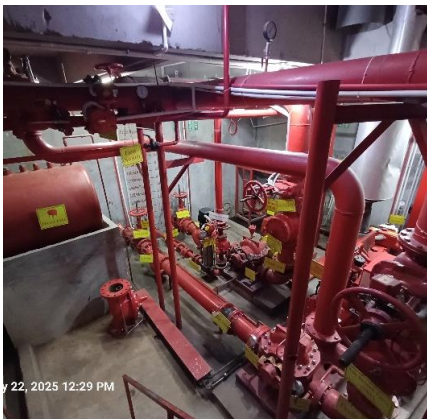
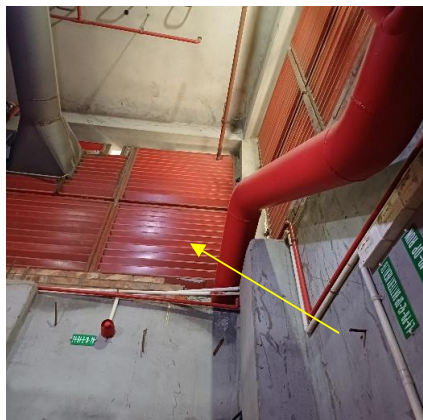
31	Fire Rated Construction	Transformer is not properly separated by fire rated construction. (Sub-Station (DPDC) Room)	Oil filled transformer shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Switch gears and transformer bays shall be separately housed with a 2-hr rated wall in between. Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Oil filled transformers shall not be housed above ground level. Or Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.	Within 3 months
				

32	Fire Rated Construction	The main structural element of the interim building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. (Building-6 (Compressor, fire panel & pump room Building))	The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4	Within 6 Months
				

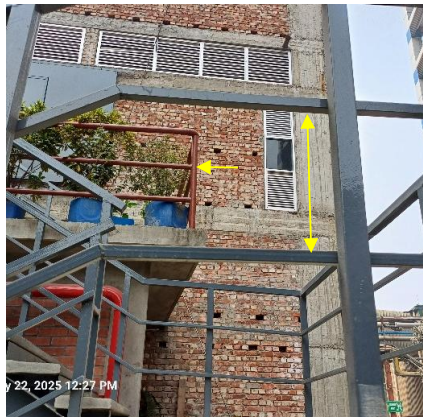
33	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Building-6 (Compressor, fire panel & pump room Building))	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer 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. 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. 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.	Within 3 months
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34	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction on the ground floor. (Building-6 (Compressor, fire panel & pump room Building))	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
				

35	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. (Building-6 (Compressor, fire panel & pump room 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. or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire rated materials shall be following certified design.	Within 3 months
				

36	Fire Rated Construction	The fire pump room is not provided with adequate fire separation due to unprotected openings on the basement floor. (Building-6 (Compressor, fire panel & pump room Building))	Provide fire pump room with 2 hr. rated fire separation when not sprinklered and 1 hr. rated fire separation when provided with automatic sprinklers in accordance with NFPA 20. Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20	Within 3 months
 				
37	Means of egress	Fire evacuation maps were not posted at all the required locations. (Building-6 (Compressor, fire panel & pump room Building))	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month

38	Means of Egress	Sliding doors are provided at building exits. (Building-6 (Compressor, fire panel & pump room Building))	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
				
39	Means of egress	Handrails are installed at staircases; however, they do not adhere to the appropriate height and spacing requirements between the handrails. (Building-6 (Compressor, fire panel & pump room Building))	Provide handrails on both side of the stairs which have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards/handrails shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.) RSC Technical Guidelines (Standard) V1.0; Section: 6.12.2	Within 1 month



40	Means of egress	Building did not have occupant load signs at the required locations. (Building-6 (Compressor, fire panel & pump room Building))	Provide occupant load signs at required locations.	Within 1 month
41	Means of Egress	Stair clear width was found less than 60 inches (Stair clearance width 53 inches) for interim building. (Building-6 (Compressor, fire panel & pump room Building))	In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m (79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used.	Within 3 Months



42	Means of Egress	A single means of exit has been provided on the 1st floor for the compressor area where travel distance exceeds the limit. (Building-6 (Compressor, fire panel & pump room Building))	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), section 6.6.2. Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6	Within 3 Months
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43	Means of Egress	The exit stair is not separated from work areas and other spaces on each floor by fire rated construction. (Diesel Generator & Chiller 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. 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. 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.	Within 3 months
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44	Fire Rated Construction	The required fire separation distance for Diesel Generator & Chiller Building does not comply with the requirements of BNBC 2006. (Diesel Generator & Chiller Building)	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months

 				
45	Fire Rated Construction	The generator room is not separated by fire rated construction due to openings, non-rated doors, and penetrations on the Ground floor. (Diesel Generator & Chiller Building)	Generator sets shall be separated from all other occupancy areas by a minimum 2 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building. 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

 				
46	Means of Egress	A single means of exit has been provided for the second floor. (Diesel Generator & Chiller Building)	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), section 6.6.2 Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6	Within 3 Months

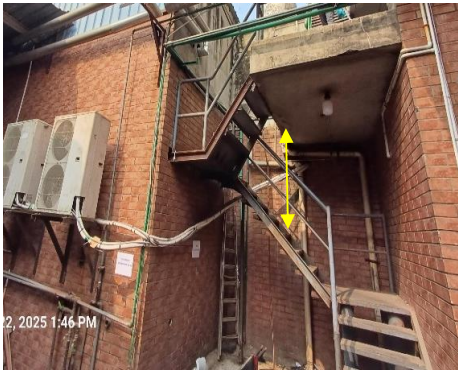


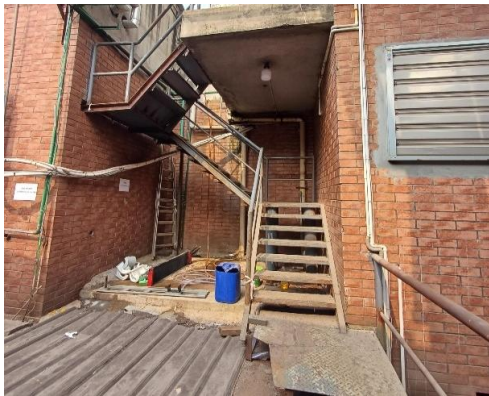
47	Means of Egress	Sliding doors are provided at building exits. (Diesel Generator & Chiller Building)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
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48	Means of egress	Handrails are installed at staircases & ramps; however, they do not adhere to the appropriate height and spacing requirements between the handrails. (Diesel Generator & Chiller Building)	Provide handrails on both side of the stairs which have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards/handrails shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.) RSC Technical Guidelines (Standard) V1.0; Section: 6.12.2	Within 1 month
 				
49	Means of egress	Building did not have occupant load signs at the required locations. (Diesel Generator & Chiller Building)	Provide occupant load signs at required locations.	Within 1 month

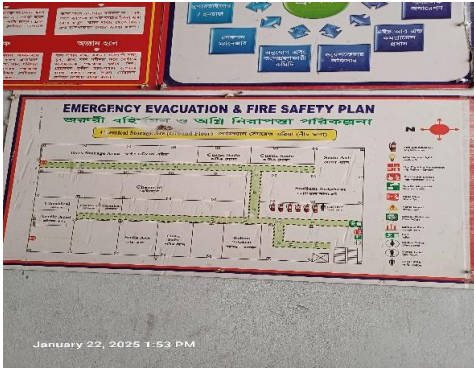
50	Means of egress	Stair clear width was found less than 35 inches (Stair-clearance width 33 inches) for existing building. (Diesel Generator & Chiller Building)	Stairs shall have a minimum clear width of 35 in for all industrial occupancies (existing building).	Within 3 Months
				
51	Means of egress	Headroom measured less than the 80 inches (found approximately 72 inches) in stair. (Diesel Generator & Chiller Building)	Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.).	Within 3 Months

				
52	Means of egress	The stair tread/riser/slope ratio do not comply with the RSC Technical Guidelines (Standard) V1.0. (Diesel Generator & Chiller Building)	The construction of stair shall comply with the RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.	Within 3 Months
				

53	Means of egress	Abrupt changes in the elevation of walking surfaces were observed, not meeting the RSC Technical Guidelines (Standard) V1.0 Section 6.3.4. (Diesel Generator & Chiller Building)	Abrupt changes in elevation of walking surfaces shall not exceed ¼ in. unless provided with a beveled slope of 1 in 2 that do not exceed ½ in. Changes greater than ½ in. shall meet the requirements for RSC Technical Guidelines (Standard)¹ V1.0 Section 6.3.5.	Within 3 Months
				

54	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Chemical Godown Shed)	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. 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
				

55	Fire Rated Construction	The required fire separation distance for Chemical Godown Shed does not comply with the requirements of BNBC 2006. (Chemical Godown Shed)	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
56	Fire Rated Construction	The structural element of the chemical Godown Shed is constructed by steel which is non-rated and was found in exposed condition without any fire protection. (Chemical Godown Shed)	Construction of non-high-rise buildings containing J occupancies shall be Type 1 construction.	Within 6 Months
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57	Means of Egress	Storage area discharges directly into exit stair enclosure. (Chemical Godown Shed)	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
				
58	Means of Egress	Exit Stairs discharge the occupant inside the building on the ground floor. (Chemical Godown Shed)	1. Modify stair to discharge directly outside. Or 2. Provide 1-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.	Within 3 months

				
59	Fire Rated Construction	Chemical storage are not properly separated by fire rated construction from the gymnasium & Indoor playground area. (Chemical Godown Shed)	Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least 4-hour. Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13. or, Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006)	Within 3 Months

 				
60	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction from the gymnasium & Indoor playground area. (Chemical Godown Shed)	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 2 months
				

61	Fire Rated Construction	Elevator shafts are directly open into the floors. (Chemical Godown 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 required fire separation.	Within 3 months
				
62	Means of Egress	Common path of egress travel exceeds 8 m (found approximately 60 m). (Chemical Godown Shed)	The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft). Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 8 m.	Within 3 Months

				
63	Means of Egress	Sliding doors are provided at building exits. (Chemical Godown Shed)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
				

64	Emergency Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. (Chemical Godown Shed)	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
 				

65	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Yarn Godown Shed)	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. 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
				

66	Means of Egress	Storage room discharges directly into exit stair enclosure. (Yarn Godown Shed)	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
				
67	Fire Rated Construction	An enclosed conveyor belt has been constructed between two buildings (Yarn Godown Shed & 9-storied building cover by RSC ID-24865) through which fire/smoke can transfer. A fire rated separation on one end is necessary. (Yarn Godown Shed)	Separate the buildings with a minimum 2-hour fire-rated construction on at least one side of the conveyor belt. Provide a 1.5-hour fire-rated door and seal all penetrations and openings between the conveyor belt.	Within 3 Months



68	Fire Rated Construction	The required fire separation distance for Yarn Godown Shed does not comply with the requirements of BNBC 2006. (Yarn Godown Shed)	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
69	Fire Rated Construction	Elevator shafts are directly open into the floors. (Yarn Godown 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 required fire separation.	Within 3 months

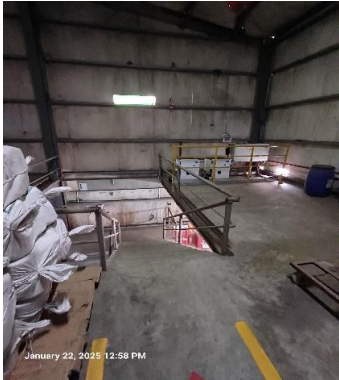


70	Means of Egress	Exit Stairs discharge the occupant inside the building on the ground floor. (Yarn Godown Shed)	1. Modify stair to discharge directly outside. Or 2. Provide 1-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.	Within 3 months
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71	Means of Egress	Sliding doors are provided at building exits. (Yarn Godown Shed)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
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72	Means of egress	Handrails are installed at staircases; however, they do not adhere to the appropriate height and spacing requirements between the handrails. (Yarn Godown Shed)	Provide handrails on both side of the stairs which have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards/handrails shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.) RSC Technical Guidelines (Standard) V1.0; Section: 6.12.2	Within 1 month
 				
73	Means of egress	Building did not have occupant load signs at all the required locations. (Yarn Godown Shed)	Provide occupant load signs at required locations.	Within 1 month

74	Emergency Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. (Yarn Godown Shed)	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
				
75	Means of egress	Dead end corridor found exceeds the limit (found approximately more than 150 ft.). (New Fabric Godown Shed)	Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).	Within 3 Months
76	Means of egress	Common path of egress travel exceeds 100 ft (found approximately more than 150 ft). (New Fabric Godown Shed)	The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft).	Within 3 Months

77	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. (Raw Fabric Store Shed)	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. 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
 				

78	Fire Rated Construction	The required fire separation distance for Raw Fabric Store Shed does not comply with the requirements of BNBC 2006. (Raw Fabric Store Shed)	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.	Within 6 Months
				

79	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Conveyor belt. (Raw Fabric Store Shed)	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. or, Provide a minimum 2-hr fire rated shaft to separate the conveyor belt shaft from each floor if required. or, Provide a minimum 2-hr fire rated shaft to separate the conveyor belt shaft from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire rated materials shall be following certified design.	Within 3 months
				

80	Means of Egress	Storage room discharges directly into exit stair enclosure. (Raw Fabric Store Shed)	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
81	Fire Rated Construction	Elevator shafts are directly open into the floors. (Raw Fabric Store 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 required fire separation.	Within 3 months
				

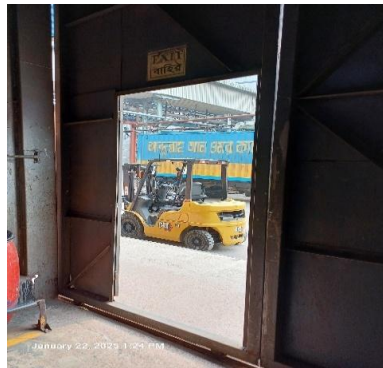
82	Means of Egress	Exit Stairs discharge the occupant inside the building on the ground floor. (Raw Fabric Store Shed)	1. Modify stair to discharge directly outside. Or 2. Provide 1-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Note: A maximum of 50 percent of the number and capacity of the exit enclosures can discharge through areas on the level of exit discharge where all the conditions described in RSC building standard 6.17.3 are met.	Within 3 months
				
83	Means of Egress	Sliding doors are provided at building exits. (Raw Fabric Store Shed)	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month

				
84	Means of egress	Handrails are installed at staircases and south side ramp; however, they do not adhere to the appropriate height and spacing requirements between the handrails. (Raw Fabric Store Shed)	Provide handrails on both side of the stairs which have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards/handrails shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.) RSC Technical Guidelines (Standard) V1.0; Section: 6.12.2	Within 1 month

				
85	Means of egress	Building did not have occupant load signs at all the required locations. (Raw Fabric Store Shed)	Provide occupant load signs at required locations.	Within 1 month
86	Means of egress	Dead end corridor found exceeds the limit on the ground and first floor (found approximately more than 73 ft.). (Raw Fabric Store Shed)	Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).	Within 3 Months



87	Means of egress	Doors width in a means of egress found 28 inches (N-E exit door, ground floor). (Raw Fabric Store Shed)	Doors in a means of egress shall have a minimum width of 0.8 m (32 in.).	Within 1 Month
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88	Emergency Lighting	Exit signage are not illuminated (burned out, broken, etc.). (Raw Fabric Store Shed)	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs	Within 1 month
				
89	Emergency Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. (Raw Fabric Store Shed)	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
				

90	Fire Rated Construction	The generator room is not separated by fire rated construction. (Boiler & Generator Shed)	Generator sets shall be separated from all other occupancy areas by a minimum 2 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building. 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
				
91	Fire Rated Construction	The boiler room is not separated by fire rated construction. (Boiler & Generator Shed)	Any room or space housing boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1 hour construction or by a minimum spatial separation of 3 m (10 ft) where located exterior to the building.	Within 3 months

				
92	Means of egress	The exit discharge path (both south & north exit) is less than 10 ft wide and is not seperated from the building interior due to non rated openings & penetrations. (Boiler & Generator Shed)	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 seperation. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 3 months
 				

93	Means of egress	Aisles are not properly marked on the floor. (All Buildings and sheds)	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 1 Month
  				
94	Means of egress	Fire evacuation maps were not posted at all the required locations. (All Buildings and sheds)	Fire evacuation maps shall be posted at the entrance to each exit stairs and exits.	Within 1 month

95	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors. (All Buildings and sheds)	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
96	ITM for Emergency Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard). (All Buildings and sheds)	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 month
97	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard). Building-6 (Compressor, fire panel & pump room Building), Chemical Godown Shed, Raw Fabric Store Shed, Yarn Godown Shed, Diseal Generator & Chiller Building, New Fabric Godown Shed, Thermal boiler Shed, Boiler & Generator Shed, Sub Station (DPDC) Room, Security Room	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

 				
98	ITM of Fire Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard. Building-6 (Compressor, fire panel & pump room Building), Chemical Godown Shed, Raw Fabric Store Shed, Yarn Godown Shed, Diesel Generator & Chiller Building, New Fabric Godown Shed, Thermal boiler Shed, Boiler & Generator Shed, Sub Station (DPDC) Room, Security Room	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation
99	ITM for Extinguisher	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. (All Buildings and sheds)	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines.	Within 1 month