

# **FIRE SAFETY INSPECTION REPORT**

**P.M KNITTEX (PVT) LTD**  
**CHOWDHURI BARI, GODHNAIL, NARAYANGONJ**

**OTHER FACTORIES: NONE**



**ACCORD**  
on Fire and Building Safety in Bangladesh

May 22, 2014

## **SUMMARY**

**P.M Knittex (pvt) Ltd was surveyed for fire safety on 5/22/2014 by Hughes Associates, Inc. This summary identifies the major deficiencies that were identified during the inspection.**

**The purpose of this 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.**

**Tables 1 - 2 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 Accord for approval.**

**Table 1. Findings And Recommendations - P.M Knittex (pvt) Ltd**

| No.                                                                                                                                                                                                                                       | Category                | Finding                                                                                                                                             | Recommendation                                                                                                                                                                                                                                                                  | Remediation Timeframe |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                                                                                                                                                                       | Fire Rated Construction | The boiler and generator rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations) on the ground and 2nd floors. | Separate the boiler and generator rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations                                                                                                                 | Within 3 months       |
| <div style="display: flex; justify-content: space-around;">   </div> |                         |                                                                                                                                                     |                                                                                                                                                                                                                                                                                 |                       |
| F-2                                                                                                                                                                                                                                       | Fire Rated Construction | Areas used for combustible storage are not separated by fire-rated construction on the 1st and 3rd floor.                                           | <p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:<br/>Maximum height of 2.4m and maximum area of 23m2</p> | Within 3 months       |

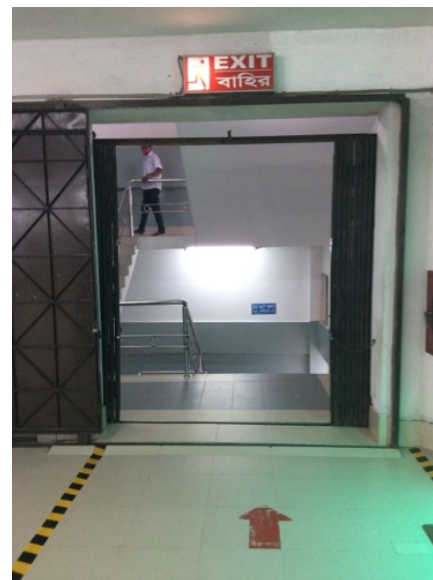


|     |                         |                                                                          |                                                                                                   |                 |
|-----|-------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------|
| F-3 | Fire Rated Construction | Unsealed penetrations and openings are located in exit stair enclosures. | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation. | Within 3 months |
|-----|-------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------|

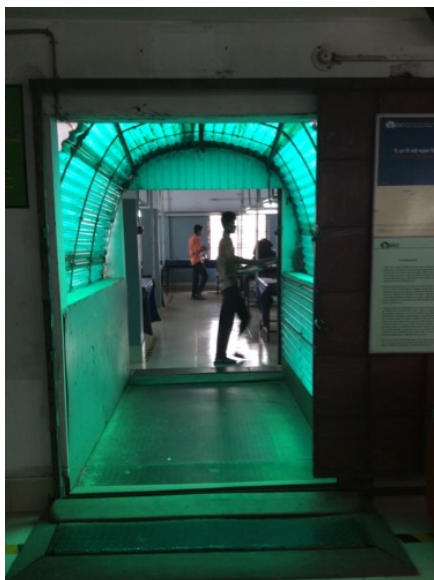


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|-----|-------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-4 | Fire Rated Construction | The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. | Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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. | Within 3 months |
|-----|-------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.



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|-----|-------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| F-5 | Fire Rated Construction | Building 01 and Building 02 are connected to each other with sky bridge on the 2nd and 3rd floors. | Separate buildings with fire-rated construction. | Within 3 months |
|-----|-------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|



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|-----|--------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| F-6 | Egress | Exit capacity is not adequate for the occupant load on the 2nd, 3rd and rooftop floors (399, 394 and 500). | <p>Reduce occupant load to not more than available exit capacity.</p> <p>If possible, provide additional exits in the future.</p>                                       | Immediate |
| F-7 | Egress | Egress doors with locking features are provided at exit stairs on every floor.                             | <p>Remove locking features from all egress doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | Immediate |



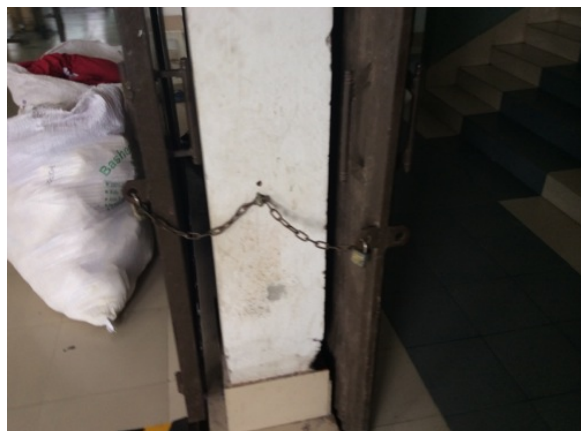
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|-----|--------|----------------------------------------------------------|------------------------------------------------|-----------|
| F-8 | Egress | Storage was located in the egress path on the 3rd floor. | Keep egress paths and stairs clear of storage. | Immediate |
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|-----|--------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| F-9 | Egress | Sliding doors are provided at exit stairs on every floor. | Replace all sliding doors along the means of egress with side-hinged, swinging egress doors.<br><br>If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Within 1 month |
|-----|--------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|



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|------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-10 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.                             | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.                   | Design within 4 months, install within 9 months |
| F-11 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system were not available.                                                                                               | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.              | Within 3 months                                 |
| F-12 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detectors throughout the building in accordance with NFPA72 | Within 6 months                                 |

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|------|-----------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-13 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were not available. | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |
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**Table 2. Findings And Recommendations - Building 02**

| No. | Category                | Finding                                                                                     | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | The exit stairs are not separated from work areas on each floor by fire-rated construction. | <p>Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> | Within 3 months       |



|     |        |                                                               |                                                       |           |
|-----|--------|---------------------------------------------------------------|-------------------------------------------------------|-----------|
| F-2 | Egress | Storage was located under the exit stair on the ground floor. | Remove all storage from exit stairs and egress paths. | Immediate |
|-----|--------|---------------------------------------------------------------|-------------------------------------------------------|-----------|



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|-----|--------|-------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|
| F-3 | Egress | A single means of egress is provided from 1st floor where the occupant load exceeds 49 persons. | Provide additional means of egress. | Within 3 months |
|-----|--------|-------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|

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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-4 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|

|     |                 |                                                                                    |                                                                                                                 |                 |
|-----|-----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| F-5 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system were not available. | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Within 3 months |
|-----|-----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|

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|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-6 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detectors throughout the building in accordance with NFPA72   | Within 6 months |
| F-7 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were not available.                                                                                       | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |

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