

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Ananta Sportswear Ltd.
Address of the Factory	: Nishchintapur, Savar, Dhaka, Bangladesh.
Present Status of the Factory	: Under Operation.
Structural Assessment Conducted by	: TUV
Date of Structural Inspection	: 3 rd February, 2015.
Fire Assessment Conducted by	: TUV
Date of Fire Inspection	: 3 rd February, 2015.
Electrical Assessment Conducted by	: TUV
Date of Electrical Inspection	: 3 rd February, 2015.
BGMEA Membership No.	: 2966.

BASIC INFORMATION:

The assessed factory building was a 9 -Storey RCC building and 13 nos. single storey shed in factory premises. Production is carried out in 4 sheds out of 13. The structural system of the 9 storey building is RCC beam column frame and beam slab floor system at ground floor only. Rest of the floors are flat slab with drop panel and outer side peripheral beams and structural system of 13 nos. sheds are CI steel sheet supported by RCC column. Entire building is occupied by the assessed factory as rental basis. This building and the sheds are being use under two different factories, named as Ananta Sportswear Ltd. and Ananta Garments Ltd. In the RCC building some floors are used individually and partially by both factories. The following information was noted:

i. Building Usage Type	: Garment Factory
ii. Structural System	: RCC Beam-column frame and flat plate structure for the building and 13 single storied sheds (Steel truss supported by RCC column).
iii. Floor System	: RCC beam slab and flat plate slab floor system for building and GI sheet roofing for shed.
iv. Floor Area	: Not mentioned in report.
v. No. of Stories	: RCC building is 9 storied and 13 sheds are single storied.
vi. Construction Year	: 2004-2008.
vii. Foundation Type	: Isolated footing foundation.
viii. Design Drawings	: Available.
ix. Soil Investigation Report	: Available.
x. Construction Materials	: Stone aggregate. (Identified by removing plaster)
xi. Generator	: Situated in a separate shed.

RECOMMENDATIONS FOR CORRECTIVE ACTION:

The recommendations of corrective action for both Structural and Fire & Electrical Safety comprises in Short Term, Mid Term and Long Term basis.

The recommendations for **Structural Safety** corrective action are:

Short Term (Immediate)	: None.
Mid Term (6-weeks)	:
	<ul style="list-style-type: none">• Building engineer to draw up plans for water proofing and drainage for the roof.• Building Engineer need to check the exposed reinforcement and suggest a corrective action as required.

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- Building to prepare as built drawings. Drawings to be submitted to authorities for approval.
- The connection of steel structure needs to be checked by building engineer and the bracing system is required to ensure the stability of the structure.

Long Term (6-months)

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- Install water proofing and drainage system.
 - Carry out any remedial actions as directed by the Building Engineer regarding exposed reinforcement.
 - Carry out any remedial actions as directed by the Building Engineer regarding the non-engineered steel connection and stability system.

The recommendations for **Fire & Electrical Safety** corrective action are:

(A): Recommendations for Fire Safety corrective actions:

<p>Immediate</p> <p><i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	<ul style="list-style-type: none"> • No corrective actions.
<p>Short Term</p> <p><i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (1 ~ 2 weeks) and should be a regular activity</i></p>	<ul style="list-style-type: none"> • No corrective actions.
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<ul style="list-style-type: none"> • Replace all existing doors on evacuation routes, exit doors, which are collapsible / sliding / roll down gates and end shutters in egress route with side hinged type door, which swing outward of the room or in the direction of travel. Swinging of the door should not be constrict the width of the corridor / passage below 0.9 meter. • Provide handrails on both side of north side of the building stairway with height of 0.9m measured from the nose of stair to the top of the handrail. • All exit stairways serving occupants located above ground floor should be smoke proof with fire resistance door. Doors in stair should be outward opening, side-swing, self-closing, non-lockable fire rated doors in stair way.

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Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	<ul style="list-style-type: none">• No corrective actions.
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(B): Recommendations for Electrical Safety corrective actions:

Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	<ul style="list-style-type: none">• No corrective actions.
Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i>	<ul style="list-style-type: none">• No corrective actions.
Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	<ul style="list-style-type: none">• No corrective actions.
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	<ul style="list-style-type: none">• No corrective actions.