



T-DESIGN KNITWEAR LIMITED

Boherarchala, Sreepur, Gazipur, Bangladesh.

(24.193605N, 90.406189E)

13th August 2017



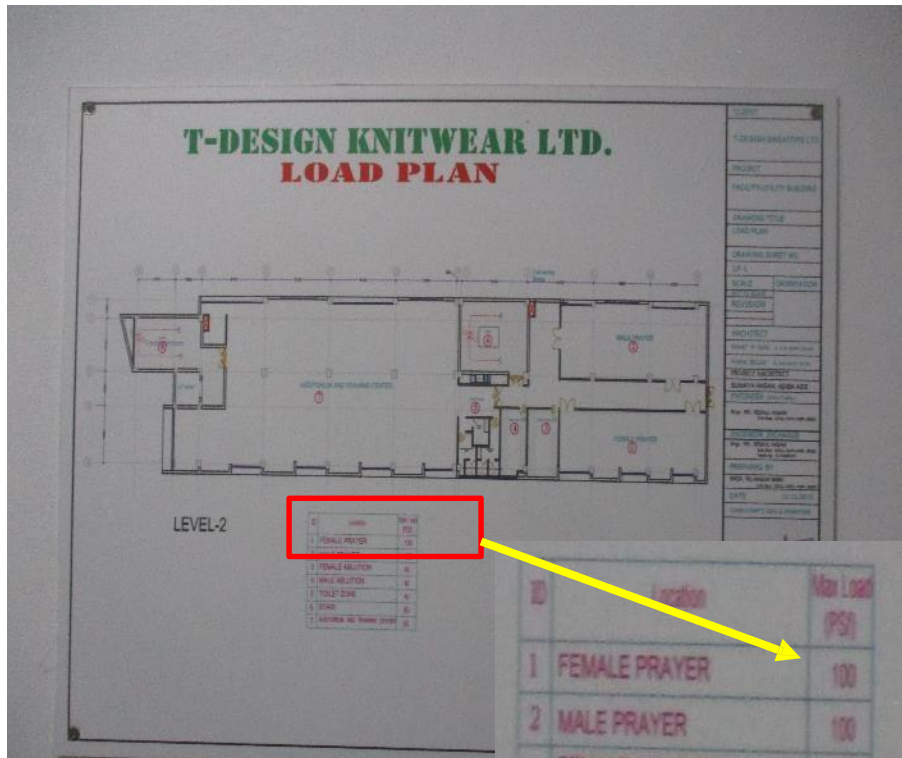


Observations



Prepared Load Plan required to be verified

Observation: Utility Building



Factory Engineer prepared a load plan considering 5 Kpa (100 psf) allowable floor loading for Utility building. Design review required if the factory management wants to implement that load plan.



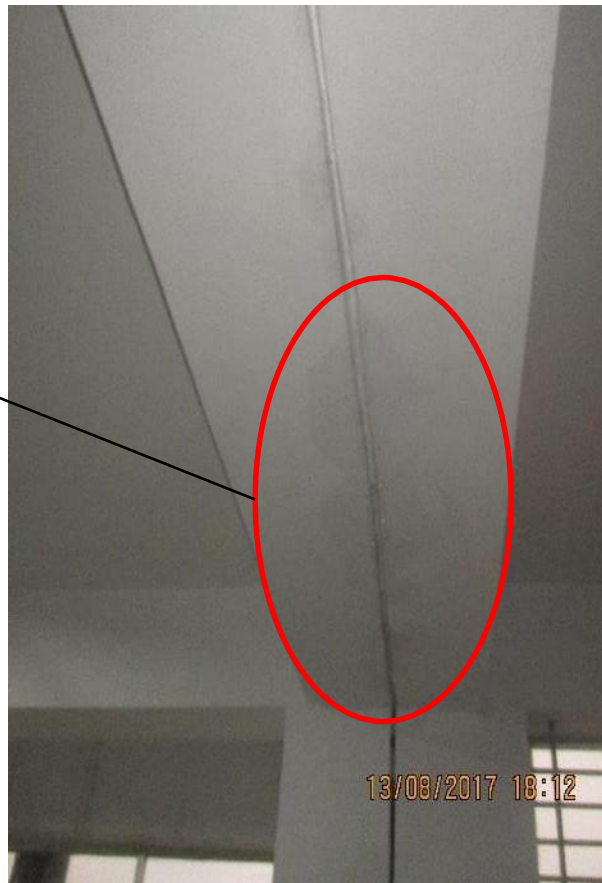
Factory is required to maintain floor live load 3Kpa until further verification by design engineer. During inspection, no overloading was observed and FOS calculation for internal column was found satisfactory considering 3Kpa allowable live loading.

Observation: Utility Building



Dampness due to water ingress on movement joint

Observation: Utility Building



Water ingress was found on 2nd floor at movement joint zone.

Dampness was found in several locations along with the movement joint. Factory engineer is required to check the affected beam and take proper remediation for preventing further dampness.

Observation: Utility Building



Water clogging on roof

Observation: HR & Day care Building



Water clogging was observed on roof. Factory is required to install the proper drainage system for preventing water clogging.

Observation: HR & Day care Building



Heavy Loading observed on roof of the chiller building

Observation: Chiller Building



Chiller Building



5000 Kg and 3500 Kg Cooling tower
on roof top

During inspection, two 5000 Kg and 3500 Kg Cooling tower were observed on roof of chiller building . Factory is required to check the capacity of the slab to carry the imposed load of cooling tower.

Observation: Chiller Building



Test Carried out



Checking aggregate of column (Stone Chips)



Rebar Scanning of column

Test Carried Out : Main Building & Utility Building



Problems Observed

Utility Building

Item 1: Prepared Load Plan required to be verified

Item 2: Dampness due to water ingress on movement joint

HR & Day care Building

Item 3: Water clogging on roof

Chiller Building

Item 4: Heavy Loading observed on roof of the chiller building



Priority Actions



Item 1 and actions

Prepared Load Plan required to be verified (Utility Building)

Priority 1

(Immediate - Now)

- Not Applicable

Priority 2

(within 6-weeks)

- Maintain 3 Kpa loads on all floors.
- Produce and actively manage a load plan for all floor plates within the factory giving consideration to floor capacity and column capacity if loading above 3Kpa is considered.

Priority 3

(within 6-months)

- Continue to implement load plan



Item 2 and actions

Dampness due to water ingress on movement joint (Utility Building)

Priority 1

(Immediate - Now)

- None Required

Priority 2

(within 6-weeks)

- Factory engineer is required to investigation the intensity of concrete damage of beams.
- Factory engineer is required to provide proper remedial method.

Priority 3

(within 6-months)

- Implement the repair works suggested by the factory engineer



Item 3 and actions

Water clogging on roof (HR & Day care Building)

Priority 1

(Immediate - Now)

- None Required

Priority 2

(within 6-weeks)

- Factory is required to install the proper drainage system for preventing water clogging.

Priority 3

(within 6-months)

- None Required



Item 4 and actions

Heavy Loading observed on roof of the chiller building (Chillar Building)

Priority 1

(Immediate - Now)

- None Required

Priority 2

(within 6-weeks)

- Factory is required to check the capacity of the slab to carry the additional imposed load.

Priority 3

(within 6-months)

- Implement necessary recommendations as per assessment where necessary.