Delicate Garments Ltd

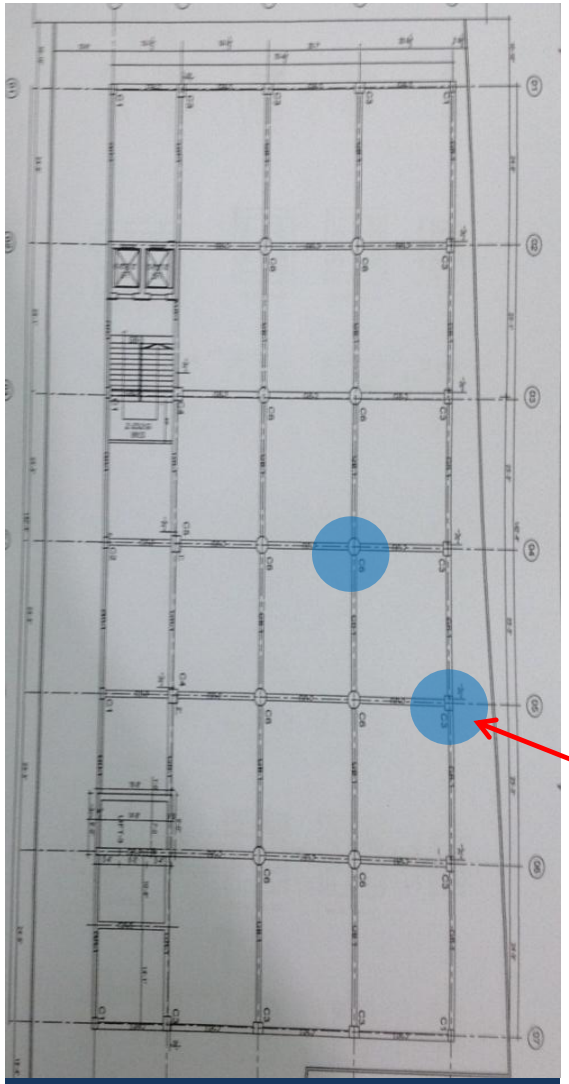
Rajaghat, Rajfulbaria, Savar, Dhaka, Bangladesh.
23.78171, 90.41787
10th May 2014

ACCORD on Fire and Building Safety in Bangladesh

ARUP

Observations

Concrete Testing



Schmidt Hammer and Ferroscanner testing on highlighted columns

Concrete Testing:

Column investigations indicated stone aggregate. Reinforcement was investigated using a ferroscanner. Arrangement noted on site corresponded to structural drawings provided.

Column showing stone aggregate.

Observations

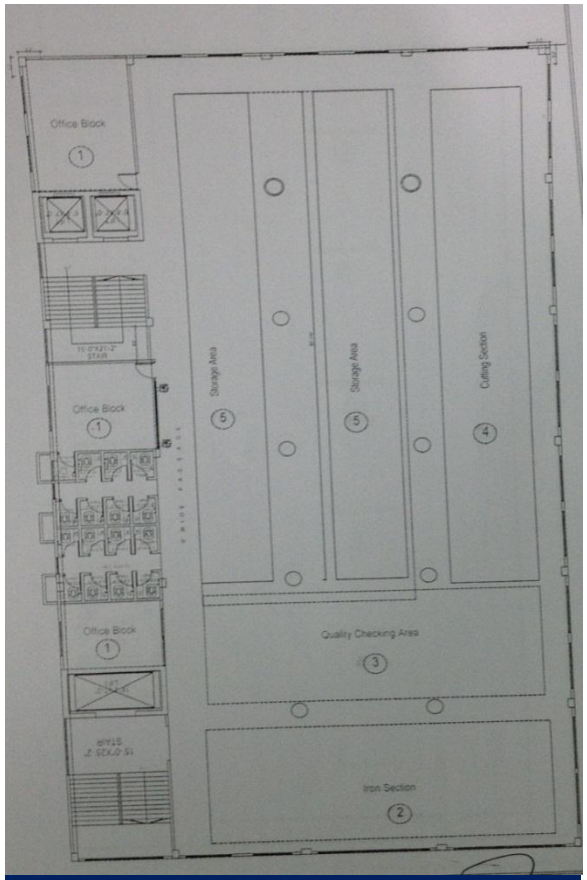
Allowable loading shown on Loading Plans is very high.

Allowable Loading Plan for: Area:1, 2,3 and 4 in 1st Floor

Loading table for area: 1,2,3 and 4

Sl. No.	Loading Location	Name	Existing Load	Allowable Load in psf	Remarks
1	01 Area: 1183 sft	Office Space	30 psf	250 psf	
2	02 Area: 1058 sft	Iron Section	6.62 psf	250 psf	
3	03 Area: 980 sft	Quality Checking Section	4.4 psf	250 psf	
4	04 Area: 1164 sft	Cutting Table Manpower	13.23 psf	250 psf	
14	05 Area: 2923 sft	Storage load	24.25 psf	250 psf	Height of Storage must not exceed 5.5 feet from floor level

Existing and allowable loads



Typical floor loading plan

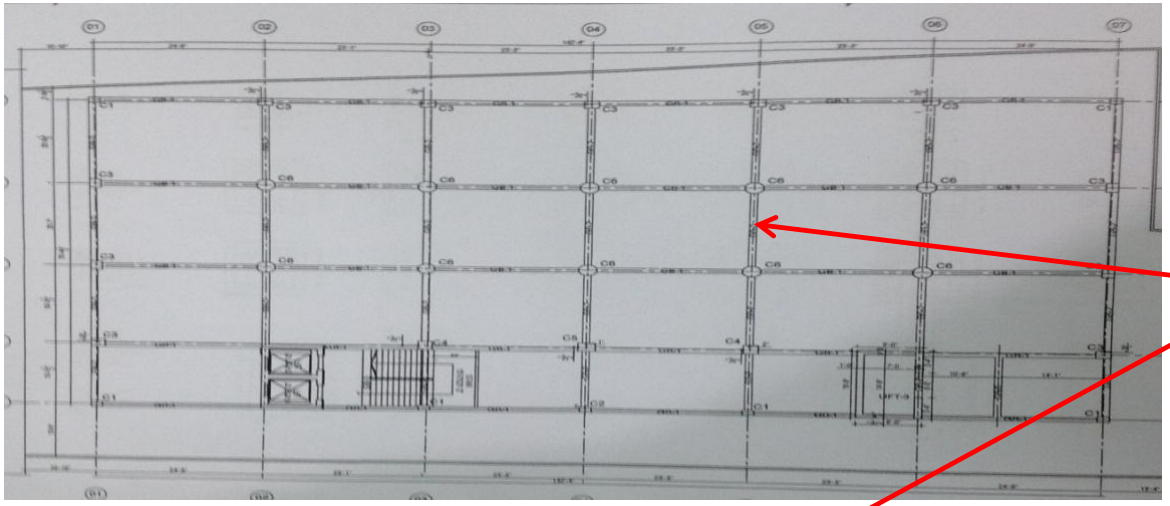
LOAD PLAN

An allowable imposed load of 250 psf (12kPa) shown in all areas of all floors.

Existing loads are very significantly lighter.

Observations

Cracking in Ground Floor Slab



Ground Floor Cracking:

Cracks along line of ground beams may be the result of settlement of the filling under the floor slab.
Cracking is visible in areas without floor finish.

Extent of cracking

Crack over ground tie beams

Observations

Priority Actions

Problems Observed

ITEM 1: Allowable loading shown on Loading Plans is very high.
ITEM 2: Cracking in Ground Floor Slab.

Item 1 and actions

Allowable loading shown on Loading Plans is very high.

Priority 1 (Immediate - Now)	• None required
Priority 2 (within 6-weeks)	• None required
Priority 3 (within 6-months)	• Factory Engineer to revise allowable loading document to include maximum allowable load of 5kPa and check capacity of slabs and beams under this loading.

Item 2 and actions

Cracking in Ground Floor Slab.

Priority 1 (Immediate - Now)	• None required.
Priority 2 (within 6-weeks)	• None required .
Priority 3 (within 6-months)	• Factory Engineer to monitor settlement of the ground floor slab and note if any settlement occurs in foundations to the main structural elements.