Bottoms Gallery (pvt) Ltd. (New Location)

D-127/2 Teknogopara, Chandona, Bason, Gazipur-1702

(24.003592, 90.384192)

12 February 2024

RSC RMG SUSTAINABILITY COUNCIL

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1. Building information

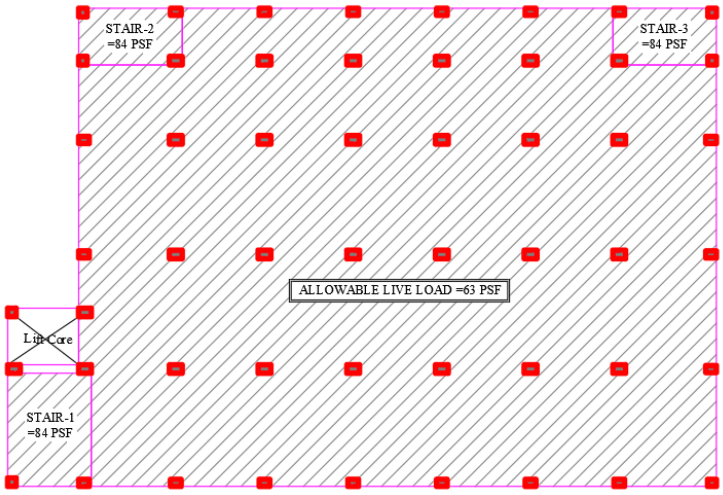
1. Building-1: 8 Storied (B+G+6) RC building with one basement.
2. Building-2: A single storied RC building.
3. Building-3: A single storied RC building.

2. Observations

Observation-01: The design report and load plan need to be revised. (Building-1)

INDUSTRIAL, STORAGE & HAZARDOUS (Occupancy - G, H & J)	Workshop, factory, warehouse	1 Light workroom without storage	3.0	2.7
		2 Machinery hall & circulation area	4.0	4.5
		3 Factory, workshop etc.	5.0	4.5
		4 Manufacturing : light	6.0	4.5
		heavy	12.0	9.0 [5]
		ice	15.0	9.0 [5]
		5 Printing plant :		[5]
		Press room	7.0	11.0
		Composing and linotype room	5.0	9.0 [5]
		Paper storage room	12.0	9.0 [5]
		6 Motor room, fan room etc. including the weight of machinery	7.5	4.5
		7 Cold storage, grain storage	15.0	9.0 [5]
		8 Storage warehouses : light	6.0	4.5 [5]
		heavy	12.0	9.0
		9 Foundries	20.0	12.0

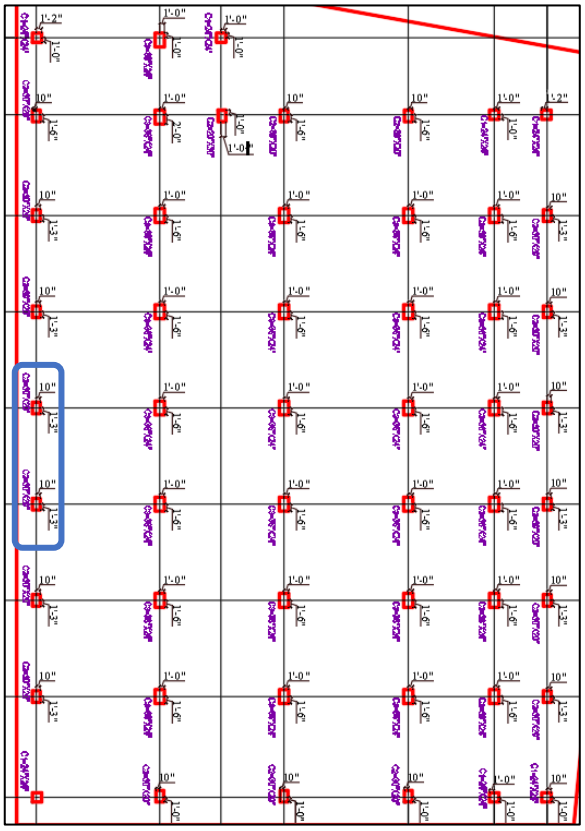
Storage & Live load table (BNBC part 6)



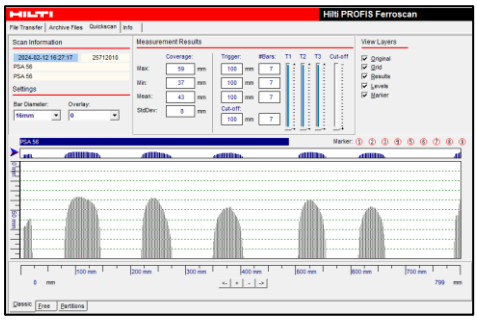
Prepared loan plan on 1st floor

Description: Live load on storage area of Ground and 1st floor is considered as 3 kPa in prepared load plan. As per BNBC-2006, live load for light storage areas is required to be considered minimum 6 kPa. Therefore, the factory engineer is required to revise the load plan as per BNBC requirement and check the design report accordingly.

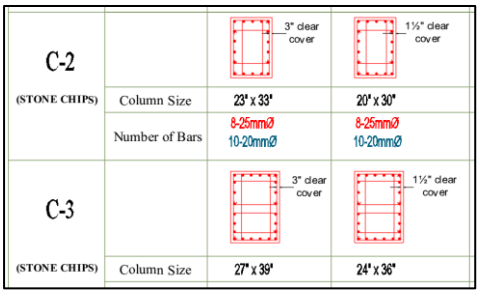
Observation-02: Discrepancies in as-built drawings. (Building-1).



Column layout plan



6 nos rebar was found by ferro scan instead of 7 in Column C2 shown in column schedule.



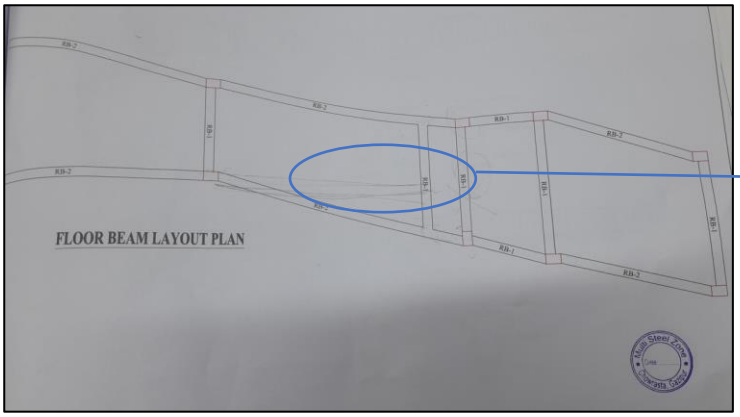
Column Schedule

Description: During inspection, 6 nos rebar was found by ferro scan instead of 7 in long face of Column C2 shown in column schedule. The building engineer is required to survey the structure and prepare full set of as-built drawings.

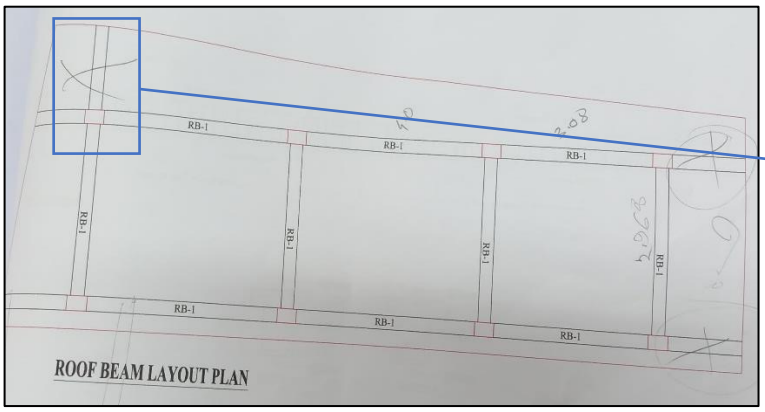
Observation-03: Non-structural elements not anchored or braced. (Building-1)

Description: Some PVC water tanks on roof and storage racks on different floors are not anchored or braced to resist lateral forces. The factory is required to anchor/brace all non-structural elements adequately to resist lateral loading.

Observation-04: Mismatches in as-built drawings. (Building 02 & 03).



Beam layout plan (Building-2) Existing beam



Beam layout plan (Building-3) Existing beam

Description: During inspection mismatches between beam layout plan and onsite condition were observed for Building 2 & 3. The building engineer is required to survey the structure and prepare full set of as-built drawings.

3. Action Plan

Observation	Action Plan	Timeline
The design report and load plan need to be revised. (Building-1)	Building engineer is required to revise the load plan as per BNBC requirement and check the design report accordingly.	within 6 weeks
	Implement remediation work if required.	within 6 months
	Implement floor loading plan.	within 6 months
Inconsistencies in as built drawings. (Building-1).	The building engineer is required to survey the structure and prepare full set of as-built drawings.	within 6 weeks
Non-structural elements not anchored or braced. (Building-1)	The factory is required to anchor/brace all non-structural elements adequately to resist lateral loading.	within 6 weeks
Mismatches in as-built drawings. (Building-2).	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
Mismatches in as-built drawings. (Building-3).	The building engineer is required to survey the full structure and produce as-built drawings with complete structural details.	within 6 weeks