SHAMS STYLING WEARS LTD (Extension)

Shams Tower, South Shyampur,, Baghbari, Hemayetpur, Savar

(23.789902, 90.257416)

11 December 2023

RSC RMG SUSTAINABILITY COUNCIL

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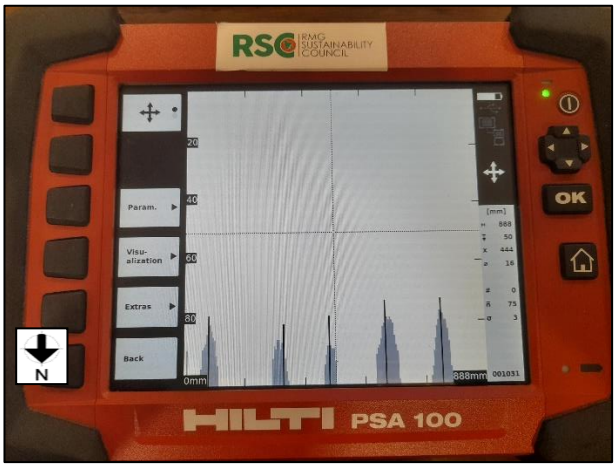
1. Building Information:

Utility Building: Five (G+Mz+4) storied RC building with a mezzanine on the ground floor at the southwest corner.

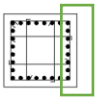
RMS Room: Single-storied masonry structure.
Connecting Bridge: Prefabricated steel bridge.

2. Observations:

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



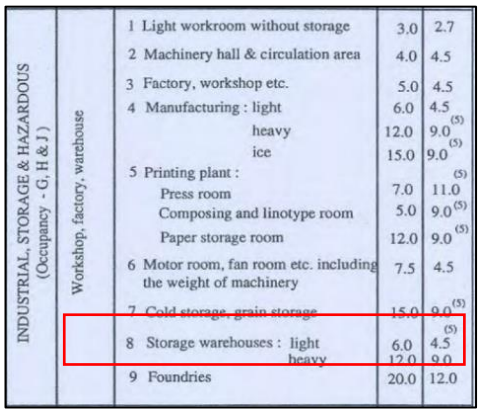
Ferro scan image of one phase

Column Type	C1	C2
COLUMN SIZE	(33"X33")	(35"X35")
BELOW PL	 **28-25mm Ø bar** 10mmØ @ 4" c/c Clear Cover=3"	 **32-25mm Ø bar** 10mmØ @ 4" c/c Clear Cover=3"
COLUMN SIZE	(30"X30")	(32"X32")
GROUND TO 1ST FLOOR	 **28-25mm Ø bar** 10mmØ @ 4"≈7"≈4" c/c Clear Cover=1.5"	 **32-25mm Ø bar** 10mmØ @ 4"≈7"≈4" c/c Clear Cover=1.5"
COLUMN SIZE	(30"X30")	(32"X32")

In C1 column, rebars found 5 in one direction instead of 8 (as per the drawing).

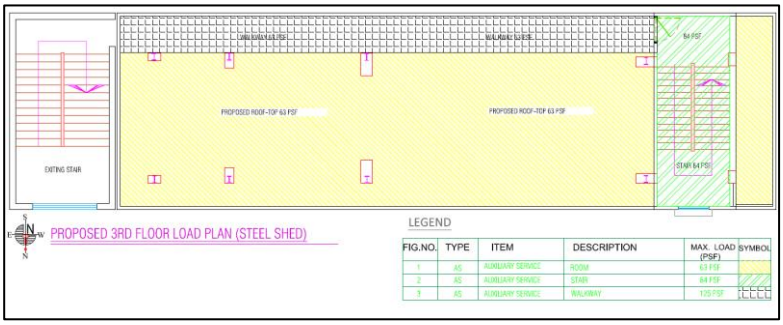
Description: During the inspection, in the C1 column, the number of rebars was found 22 instead of 28 (as per the drawing). The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-2: Storage live load does not comply with BNBC requirement. (Utility Building)



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

Live load table (BNBC part-6)



Prepared loan plan on 3rd floor

Description: The live load on the storage area of the 2nd floor is considered 3 kPa in the prepared load plan. As per BNBC-2006, the live load for light storage areas is required to be considered a minimum 6 kPa. Therefore, the factory engineer is required to revise the load plan as per BNBC requirement and check the design accordingly.

Observation-3: Absence of approval drawing from concerned authority (Utility Building).

Utility Building

Description: During the inspection, no building permit drawing was available for Utility Building. The building engineer is required to take approval from the concerned authority for the structure.

3. Action Plan:

Observation	Action Plan	Timeline
Discrepancies in as-built structural drawings. (Utility Building)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
Storage live load does not comply with BNBC requirement. (Utility Building)	Building engineer is required to revise the load plan as per BNBC requirement and check the design accordingly.	within 6 weeks
Storage live load does not comply with BNBC requirement. (Utility Building)	Implement remediation work if required.	within 6 months
Absence of approval drawing from concern authority (Utility Building)	The building engineer is required to get approval from the concerned authority for the structure.	within 6 months