

Chaity Composite Ltd. (Extension 2)

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(23.649397, 90.585686)

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1. Building Information

Building-01(Extension of Main Production Building): This building is proposed for five-storied (G+4) (now two-storied) reinforced concrete (RC) building.

Building-02 (Compressor Building): This building is a two-storied (G+1) reinforced concrete (RC) building with an underground water reservoir and pump room.

Building-03 (Fire Control Room): This building is a single-storied masonry building.

Building-04 Guard Room-(Gate-02): This building is a single storied RC building.

Building-05(Knitting Sample Room): This building is a single storied RC building.

Building-06 (RMS Building-01): This building is a single-storied (G) reinforced concrete (RC) building.

Building-07 (RMS Building-02): This building is a single storied RC building.

Building-08 (Training Center): This building is a two-storied (G+1) reinforced concrete (RC) building with steel roof shed.

Building-09 (Grard Room-Gate-01): This building is a single-storied (G) Masonry building.

2. Observations

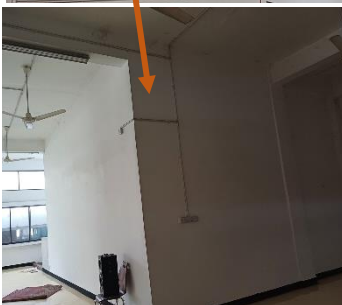
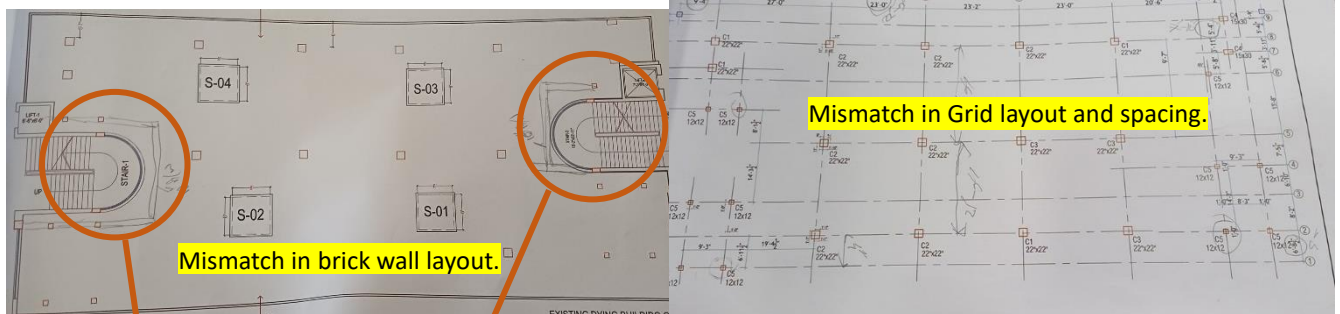
Building-01(Extension of Main Production Building)

Observation-1: Absence of design report (Building 01).



Description: During the inspection, the design report was not available for Building 1. The building engineer is required to prepare a design report following BNBC (part-6, section 1.9.1) and submit it to RSC for review.

Observation-2: Discrepancies in as-built drawings (Building 01).

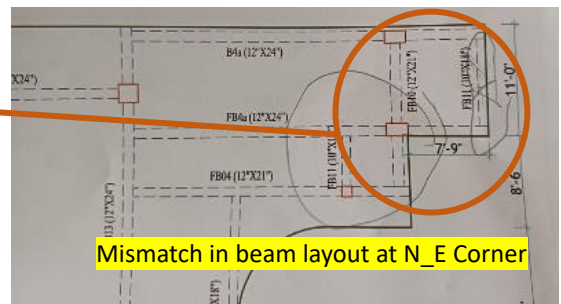


Brick wall was observed in marked position at 1st floor level which was not shown in as built drawing.

Mismatch was observed in column grid spacing. Cantilever portion at side was observed 2.4m instead of 1.62m.



Beam is not passing through column. Also, edge beam is found missing.



Description: During the inspection, discrepancies were observed between the as-built drawing and

the on-site condition. Mismatches are shown above. The building engineer is required to survey the whole structure and update the drawing reflecting on-site conditions.

Observation-3: Lack of fall protection (Building 01).

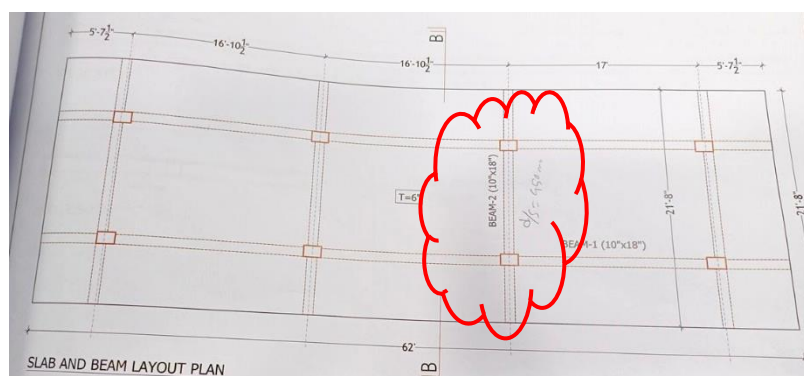
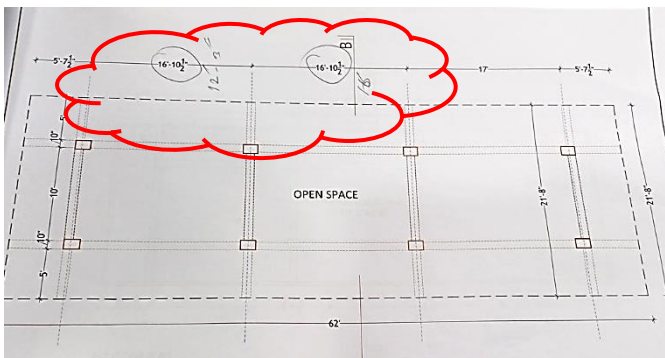


Incomplete Slab construction.

Description: A falling hazard was observed on the roof of the 1st floor, especially at the East and south side of the building. The building engineer is required to protect against falling hazards appropriately.

Building-02 (Compressor Building)

Observation 4: Mismatch in as-built drawings. (Building-02)



Description: Mismatches were found in as-built drawing of grid spacing, floor height & beam sizes. During inspection, beam size found 10X24" instead of 10X18" and ground floor height found 14'9" instead of 12'. The building engineer is required to revise the as-built drawing as per actual site condition.

Building-06 (RMS Building-01)

Observation 5: Corrosion on steel members (Building-06)



Description: Corrosion was found on steel members at several locations. The building engineer is required to remove corrosion and provide rust-proof paint on steel members.

Building-07 (RMS Building-02)

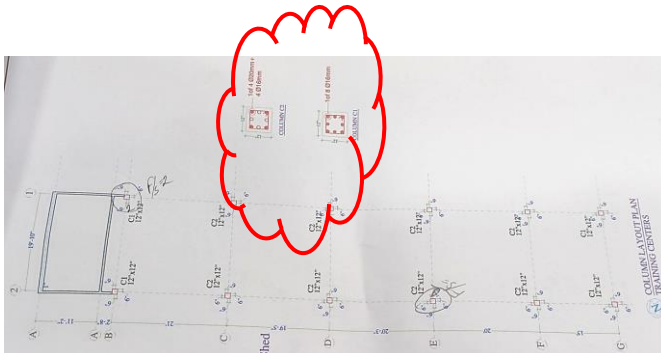
Observation-6: Absence of design report (Building 07).



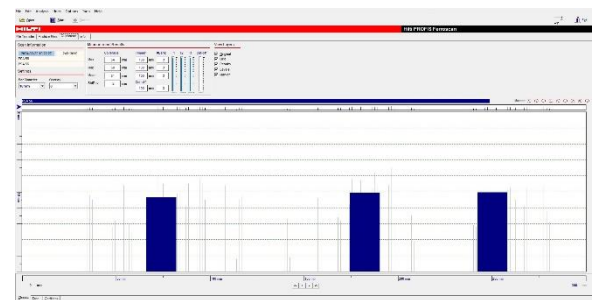
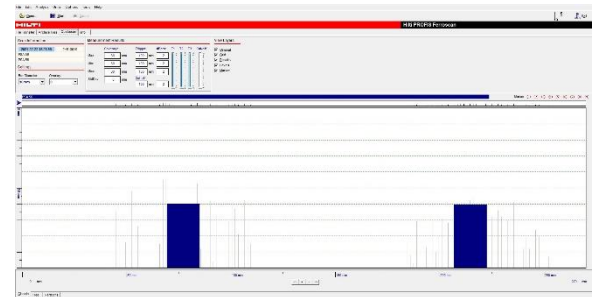
Description: During the inspection, the design report was not available for Building 7. The building engineer is required to prepare a design report following BNBC (part-6, section 1.9.1) and submit it to RSC for review.

Building-08 (Training Center)

Observation -7: Mismatch in as-built drawings. (Building-08)



6-Nos rebar found instead
of 8-Nos bar



No details found of Steel
members in as built
drawing.

Description: Mismatches were found in the as-built drawing of column rebar and no details of roof steel members were found. During inspection, 6-nos column rebar was found instead of 8-nos rebar. The building engineer is required to revise the as-built drawing as per the actual site condition.

Observation -8: Lack of lateral stability (Building-08)



No load transfer media at long-direction

Description: No Load transfer media was found along the long-direction. The building engineer is required to perform an Engineering Assessment (EA) to check the lateral stability of the structure.

Observation -9: Apparently non-engineered steel stair. (Building-08)



Apparently non-engineered steel stair

Description: The stability system of the steel stair and its connections are apparently non-engineered. The building engineer is required to suggest a proper action plan to make the structure adequate and prepare necessary design documents accordingly.

Observation -10: Unbraced storage racks (Building-08)



Unbraced storage racks

Description: Storage racks at several locations were found unbraced. The building engineer is required to brace/anchor all the non-structural elements including the storage racks.

Building-09 (Grard Room-Gate-01)

Observation -11: Lack of as-built drawing (Building-09)



Description: During inspection, only as-built architectural drawing was found but no as-built structural drawing was found at site. The building engineer is required to prepare a set of as-built structural drawing as per actual site condition and keep on site for verification.

Observation -12: Dampness at interior wall (Building-09)



Dampness at the interior wall

Description: During the inspection, Dampness was observed at the interior wall surface. The building engineer is required to remove dampness and repair the wall accordingly.

Observation -13: Lack of Building Permit (Building-2 to Building-9)



Description: During the inspection, no permit drawings were found except for Building-1. The building engineer is required to collect the permit drawings for all buildings from the concerned authority.

3. Action Plan

Observation	Action Plan	Timeline
Absence of design report (Building 01).	The building engineer is required to prepare a design report following BNBC (part-6, section 1.9.1) and submit it to RSC for review.	within 6 weeks
	Implement remediation work if required.	within 6 months
Discrepancies in as-built drawings (Building 01).	The building engineer is required to survey the whole structure and update the drawing reflecting on-site conditions.	within 6 weeks
Lack of fall protection (Building 01).	The building engineer is required to protect against falling hazards in the appropriate manner.	within 6 weeks
Mismatch in as-built drawings. (Building-02)	The building engineer is required to revise the as-built drawing as per the actual site condition.	within 6 weeks
Corrosion on steel members (Building-06)	The building engineer is required to remove corrosion and provide rust-proof paint on steel members.	within 6 weeks
Absence of design report (Building 07).	The building engineer is required to prepare a design report following BNBC (part-6, section 1.9.1) and submit it to RSC for review.	within 6 weeks
	Implement remediation work if required.	within 6 months
Mismatch in as-built drawings. (Building-08)	The building engineer is required to revise the as-built drawing as per the actual site condition.	within 6 weeks
Lack of lateral stability (Building-08)	The building engineer is required to perform Engineering Assessment (EA) to check the lateral stability of the structure.	within 6 weeks
	Carry out the suggested remedial works if required.	within 6 months
Apparently non-engineered steel stair. (Building-08)	The building engineer is required to suggest a proper action plan to make the structure adequate and prepare necessary design documents accordingly.	within 6 weeks
	Carry out the suggested remedial works if required.	within 6 months
Unbraced storage racks (Building-08)	The building engineer is required to brace/anchor all the non-structural elements including the storage racks.	within 6 weeks
Lack of as-built drawing (Building-09)	The building engineer is required to prepare a set of as-built structural drawings as per actual site conditions and keep on-site for verification.	within 6 weeks
Dampness at interior wall (Building-09)	The building engineer is required to remove dampness and repair the wall accordingly.	within 6 weeks
Lack of Building Permit (Building-2 to Building-9)	The building engineer is required to collect the permit drawings for all buildings from the concerned authority.	within 6 months