

KORMOP CO.LTD

53/1, Block No-C, Ward No-3, Belma Ashulia, Bangladesh

(23.895122, 90.291919)

24 February 2025



1. Building Information

1. Factory Building-1
2. Factory Building-2
3. Generator Shed
4. Wastage Shed
5. Compressor Shed

2. Observation

Observation-1: Absence of structural drawings. (Factory Building-1).



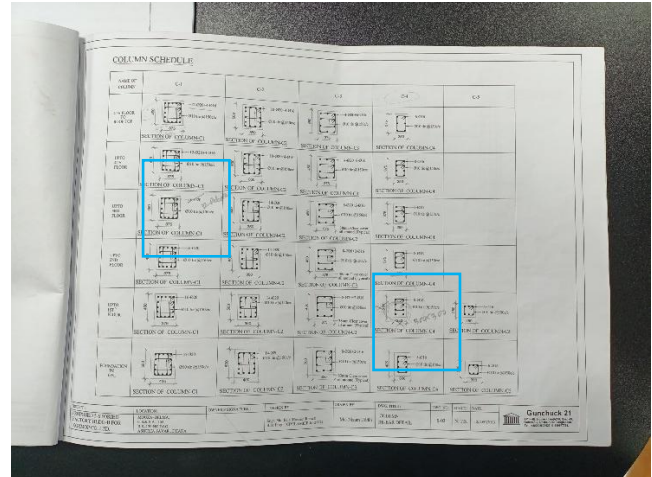
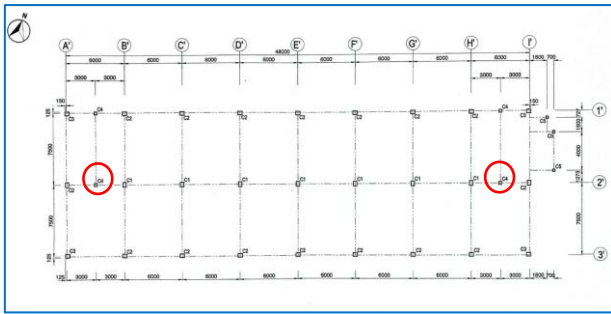
Description: Credible structural drawings were not available at the time of inspection. Building engineer is required to survey the whole structure and produce credible structural drawing for the structure.

Observation 2: Lack of lateral stability and absence of design documents (Factory Building-1).



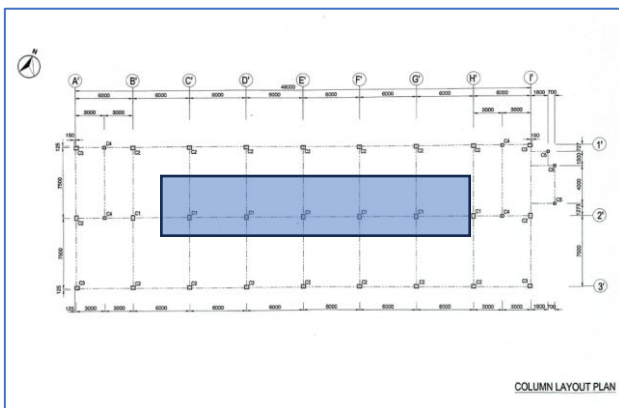
Description: Lateral load transfer media (compression struts) were found missing. So, stability in the long direction is incomplete. The building engineer is required to carry out Detail Engineering Assessment (DEA) to check the stability system for the whole structure and suggest proper remedial measures.

Observation-3: Mismatches in as-built drawings (Factory Building-2).



Description: Size and amount of rebar in C-4 column did not match with onsite condition. 300x300 mm was found instead of 250x375 and 6 nos of rebars were found instead of 8 nos. Also, the amount of rebar at C-1 column on 3rd floor were found less than the drawings. Building engineer is required to survey the whole structure and prepare accurate as-built drawings for the structure.

Observation 4: Columns and footings found to be overstressed. (Factory Building-2).



Description: Cursory calculation indicates the internal columns and footings are stressed above the normal design limit. Column and footing capacity were checked considering the 3 kPa live load for production floor & 6 kPa live load for storage area and minimum concrete strength based on aggregate type. The building engineer is required to review the design load and foundation stresses.

Observation-5: Unbraced PVC water tank on the stair roof and racks on floor (Factory Building-2).



Description: Unbraced plastic water tanks and storage racks were found on the staircase roof and typical floor. The factory is required to anchor and brace all types of non-structural elements to avoid falling hazards during EQ.

Observation 6: Column susceptible to vehicle and trolley impact (Factory Building-2).



Description: Columns on loading/unloading area are susceptible to vehicle impact. Also, columns on typical floors are susceptible to trolley impact. Building engineer is required provide guard around the column.

Observation-7: Lack of Structural drawings (Generator Shed, Wastage Shed, Compressor Shed).



Description: As-built structural drawings were not available for these sheds. Building engineer is required to survey the whole structure and prepares full set of as-built structural drawings.

Observation 8: Improper connection and inadequate vertical member (Generator Shed, Wastage Shed, Compressor Shed).



Description: Inadequate connection, member size was observed in these sheds. The building engineer is required to check the connection & stability system (safety check) of the structure and suggest proper alternatives accordingly following Accord Building Standard.

3. Action Plan:

Item No	Observation	Action Plan	Timeline
01	Absence of structural drawings. (Factory Building-1)	Building engineer is required to survey the whole structure and prepare as-built drawings with credible foundation details.	within 6 weeks
02	Lack of lateral stability and absence of design documents (Factory Building-1)	The building engineer is required to carry out Detail Engineering Assessment (DEA) to check the stability system for the whole structure and suggest proper remedial measures.	within 6 weeks
03	Lack of lateral stability and absence of design documents (Factory Building-1)	Produce and actively manage floor load plan for both mezzanine and roof.	within 6 weeks
04	Lack of lateral stability and absence of design documents (Factory Building-1)	Implement remediation work if required.	within 6 months
05	Lack of lateral stability and absence of design documents (Factory Building-1)	Implement floor loading plan.	within 6 months
06	Mismatches in as-built drawings (Factory Building-2)	Building engineer is required to survey the whole structure and prepare accurate as-built drawings for the structure.	within 6 weeks
07	Columns and footings found to be overstressed. (Factory Building-2).	Verify in-situ test from each class of concrete.	Immediate
08	Columns and footings found to be overstressed. (Factory Building-2).	The building engineer is required to carry out DEA to review the design load, column and foundation stresses.	within 6 weeks
09	Columns and footings found to be overstressed. (Factory Building-2).	Produce and actively manage floor load plan.	within 6 weeks
10	Columns and footings found to be overstressed. (Factory Building-2).	Implement remediation work if required.	within 6 months
11	Columns and footings found to be overstressed. (Factory Building-2).	Implement floor loading plan.	within 6 months

Item No	Observation	Action Plan	Timeline
12	Unbraced PVC water tank on the stair roof and racks on floor (Factory Building-2)	The factory is required to anchor/brace all types of non-structural elements to avoid falling hazards during earthquakes.	within 6 months
13	Column susceptible to vehicle and trolley impact (Factory Building-2).	Provide separate barriers around the column to avoid potential vehicle impact	within 6 months
14	Column susceptible to vehicle and trolley impact (Factory Building-2).	Provide column guard to protect the trolley impact	within 6 months
15	Lack of Structural drawings (Generator Shed, Wastage Shed, Compressor Shed).	Building engineer is required to survey the whole structure and prepares full set of as-built structural drawings.	within 6 weeks
16	Improper connection and inadequate vertical member (Generator Shed, Wastage Shed, Compressor Shed).	The building engineer is required to check the connection & member adequacy check (safety check) of the structure and suggest proper alternatives accordingly following Accord Building Standard.	within 6 weeks
17	Improper connection and inadequate vertical member (Generator Shed, Wastage Shed, Compressor Shed).	Implement remediation work if required.	within 6 months