

Gumti Textile Ltd. (Extension)

Shafipur, Anser Academy, Kalikour, Gazipur

(24.029886, 90.267125)

21 August 2025



1. Building Information

1.	Building D	Two-storied (G+1) steel building
2.	Shed-2	Single-storied steel shed
3.	Shed-3	Single-storied steel shed
4.	Toilet Zone	Single-storied steel shed
5.	Compressor room	Single-storied steel shed
6.	SDB Room	Single-storied masonry structure
7.	Mini Boiler Shed	Single-storied steel shed
8.	CNG RCU	Single-storied steel shed
9.	LPG Storage & Vaporizer Room	Single-storied steel shed
10.	Jhut Boiler Shed	Single-storied steel shed
11.	Chemical Shed	Single-storied steel shed

2. Observation

Observation-01: Settlement of floor, crack and tilting of wooden shore pile in Shed 2 & 3.



Tilting of wooden shore pile



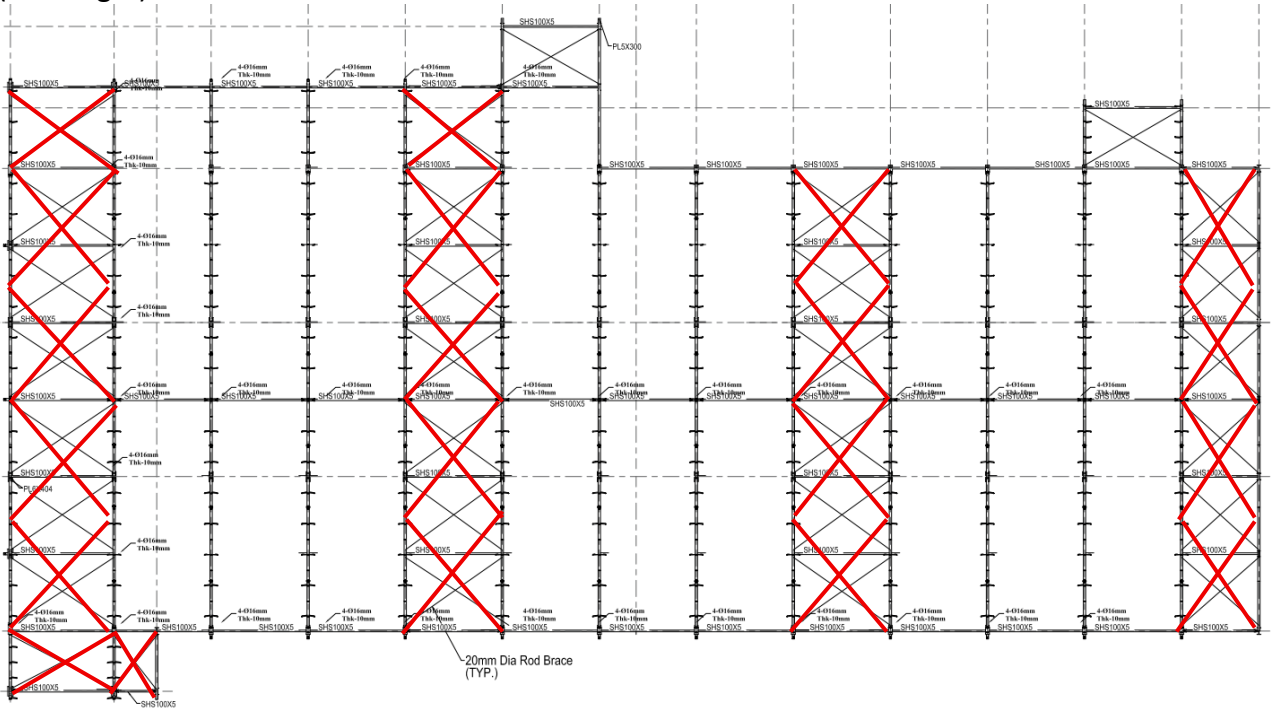
Settlement of the floor and cracks

Description: Settlement of the floor and settlement cracks were observed on the edges of the sheds 2 & 3 near the water body. Also, the tilting of the wooden shore pile was observed.

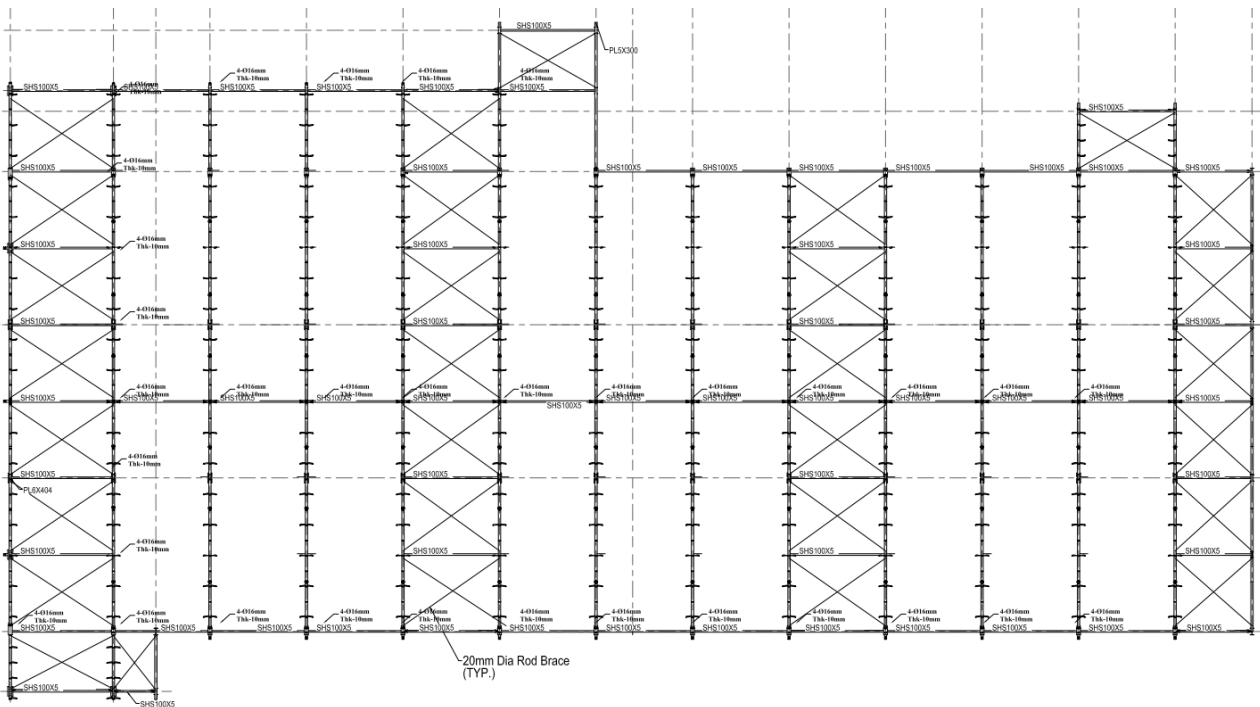
Action Plans:

1. Building Engineer to check the shore protection and retaining wall capacity to assess the risk of collapse.
2. Appoint a Geotechnical Expert to investigate cracks, settlement, and pile tilting.
3. Implement interim safety measures recommended by the Geotechnical Expert.

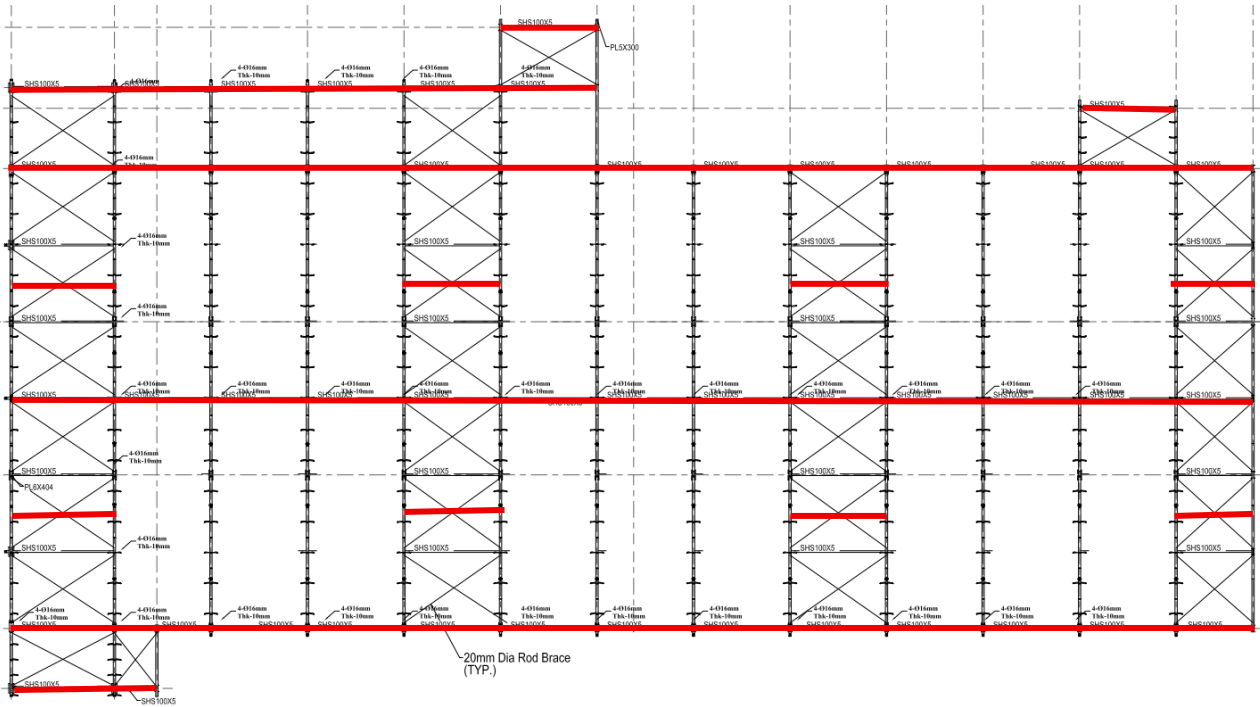
Observation-02: Inconsistency between the construction drawing and the onsite condition (Building D)



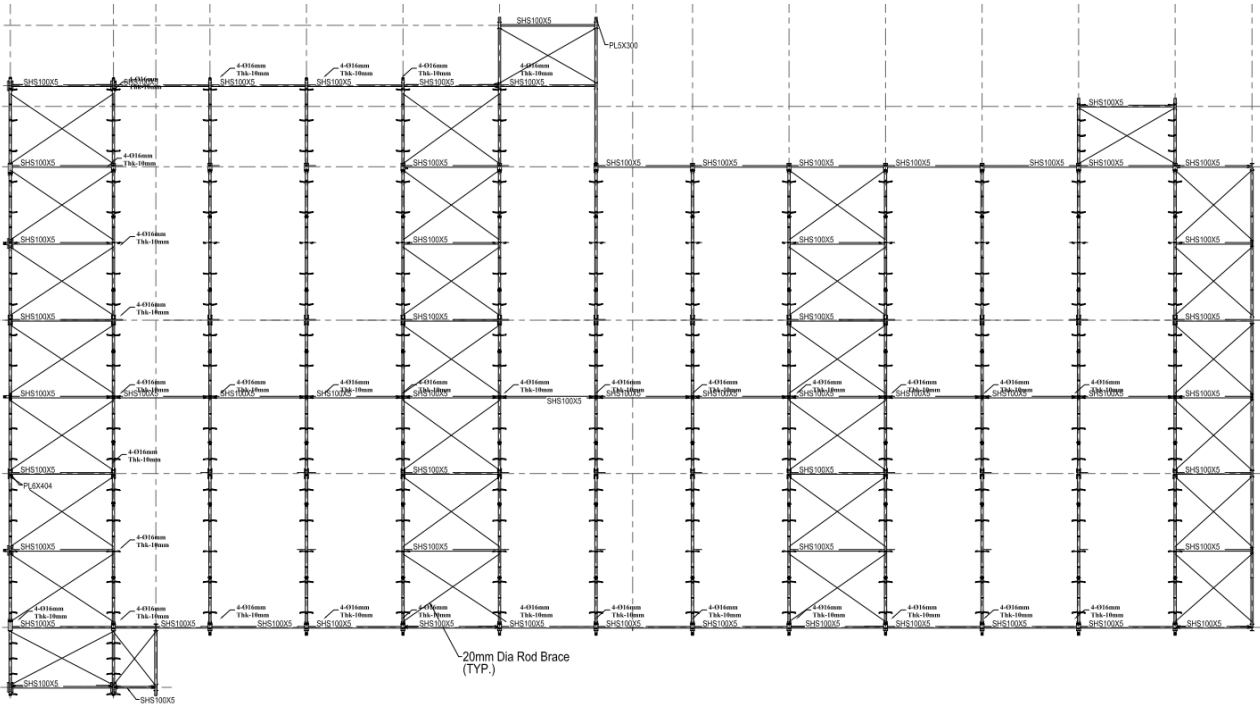
Bracing layout as per site condition (red marked)



Bracing layout as a drawing



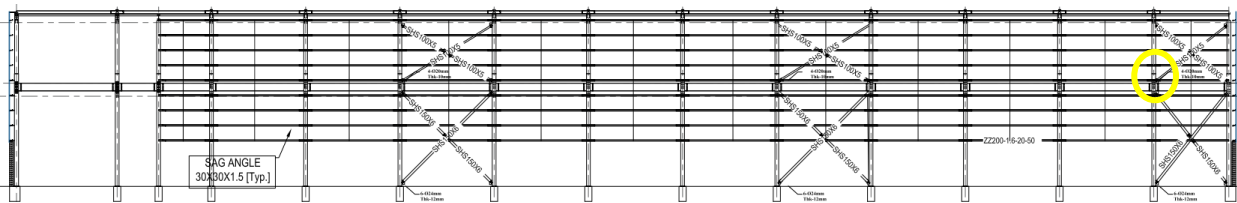
Strut layout as per site condition (red marked)



Strut layout as per drawing

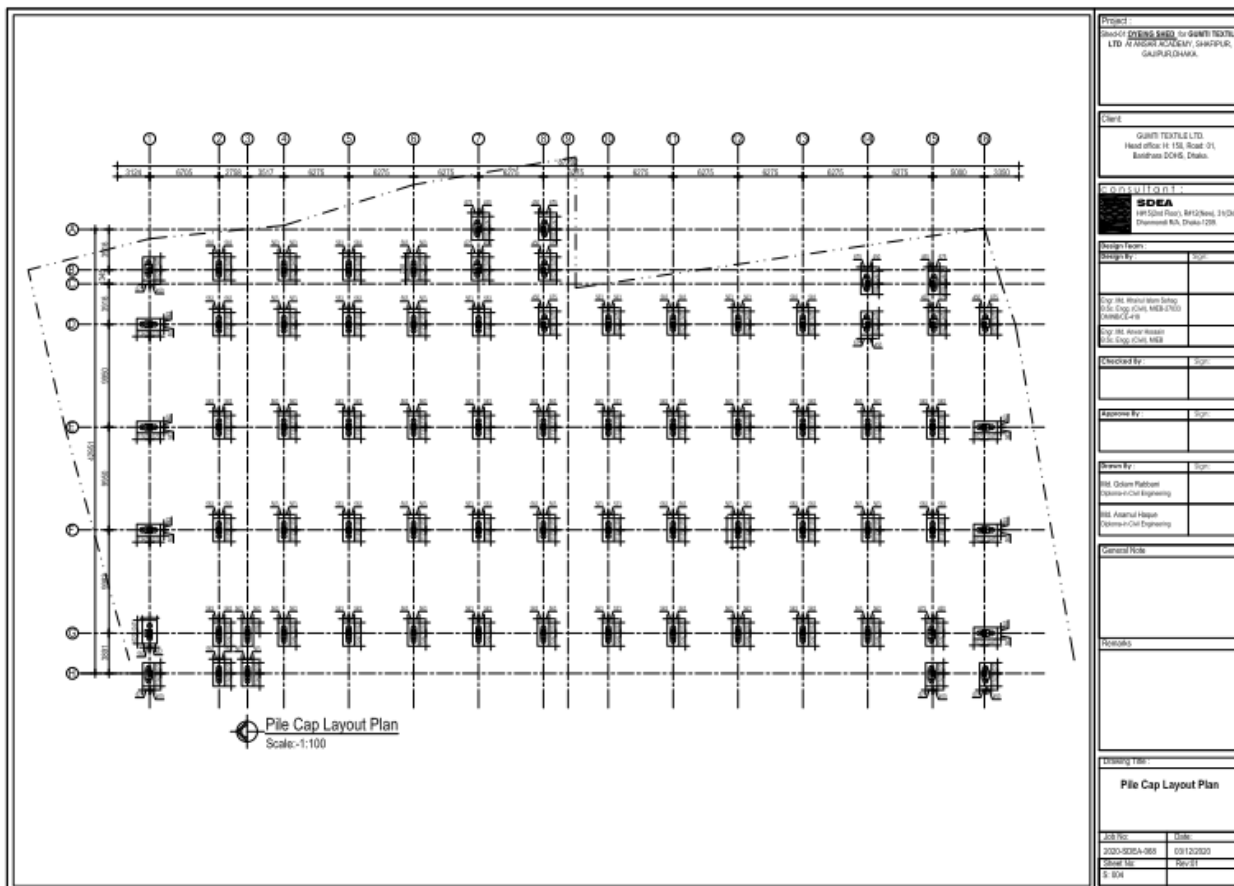


Eccentric connection



Description: Discrepancies were observed between the construction drawings and onsite conditions regarding the roof bracing and compression strut layout. Eccentric connections (highlighted in yellow) were found where concentric connections were specified. The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect site conditions.

Observation-03: Non-credible as-built drawings & documentation, load plan missing. (Building D)



Description: Seal & signature were missing in the construction drawing, so these documents became non-credible; also load plan was found missing. The building engineer is required to carry out a Detail Engineering Assessment (DEA).

Observation-04: Structural connection between Building D and Shed C.



Description: Building D and Shed C (covered under RSC ID: 10974) are structurally connected. The building engineer is required to either physically separate the two structures or assess them as a single structural entity.

Observation-05: Faulty erection (Building D)



Misaligned vertical bracing



Connection gap

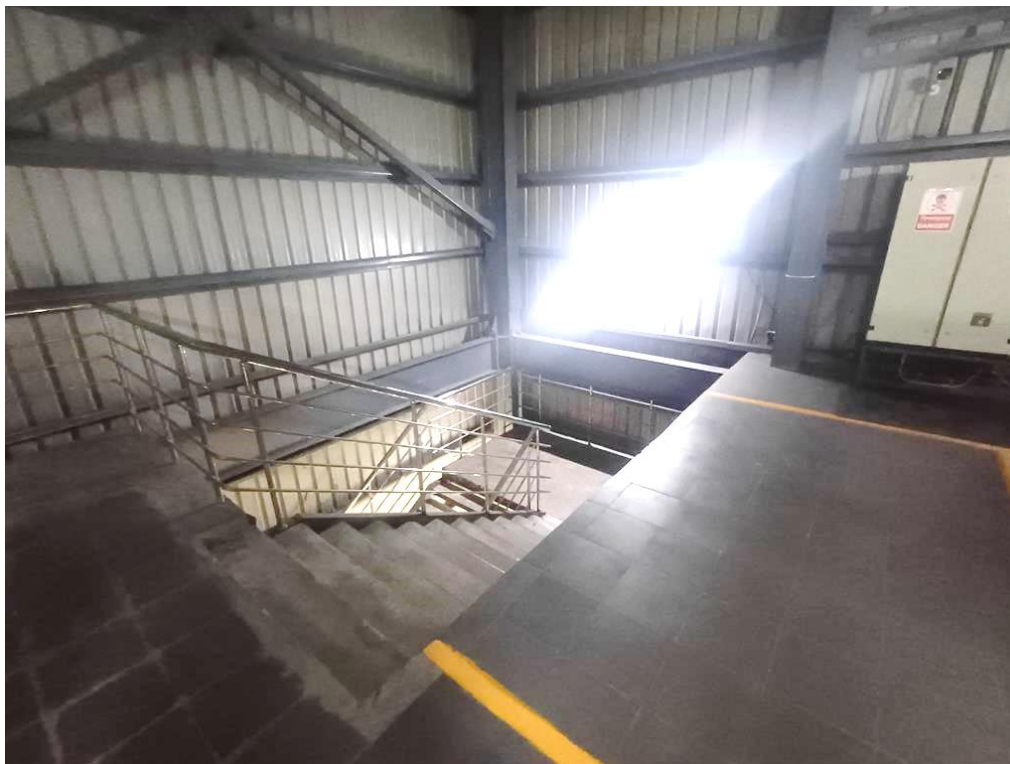


extra hole in the connection



Description: During inspection, faulty erection was observed at several locations. The building engineer is required to investigate, identify & rectify all fabrication faults by suitable methods.

Observation-06: Falling hazard (Building D)



Description: A falling hazard was observed on the stairs. The factory is required to provide railing on stairs.

Observation-07: Lack of lateral stability system (Shed 2, Shed 3, LPG Storage & Vaporizer Room, Jhut Boiler Shed, Chemical Shed)



Shed 2



Shed 3



LPG Storage & Vaporizer Room



Jhut Boiler Shed



Chemical Shed

Description: A Portal frame was observed in the short direction. A compression strut or load transfer media was not observed in the long direction. Check the lateral stability of the structures.

Observation-08: Improper connection (Shed 2)



Improper connection

Description: During inspection, an improper connection was observed. The building engineer is required to rectify all faulty connections by suitable methods.

Observation-09: Inadequate connection & member size [Toilet Zone, Compressor room, Mini Boiler shed, CNG RCU]



Toilet Zone



Compressor room



Mini Boiler shed



CNG RCU

Description: Inadequate connection and member size were observed. The building engineer is required to check the adequacy of the connection & member size.

Observation-10: Corrosion on steel member (Building D, Shed 2, Shed 3, Toilet Zone, CNG RCU, LPG Storage & Vaporizer)



Building D



Shed 2



Shed 3



Toilet Zone



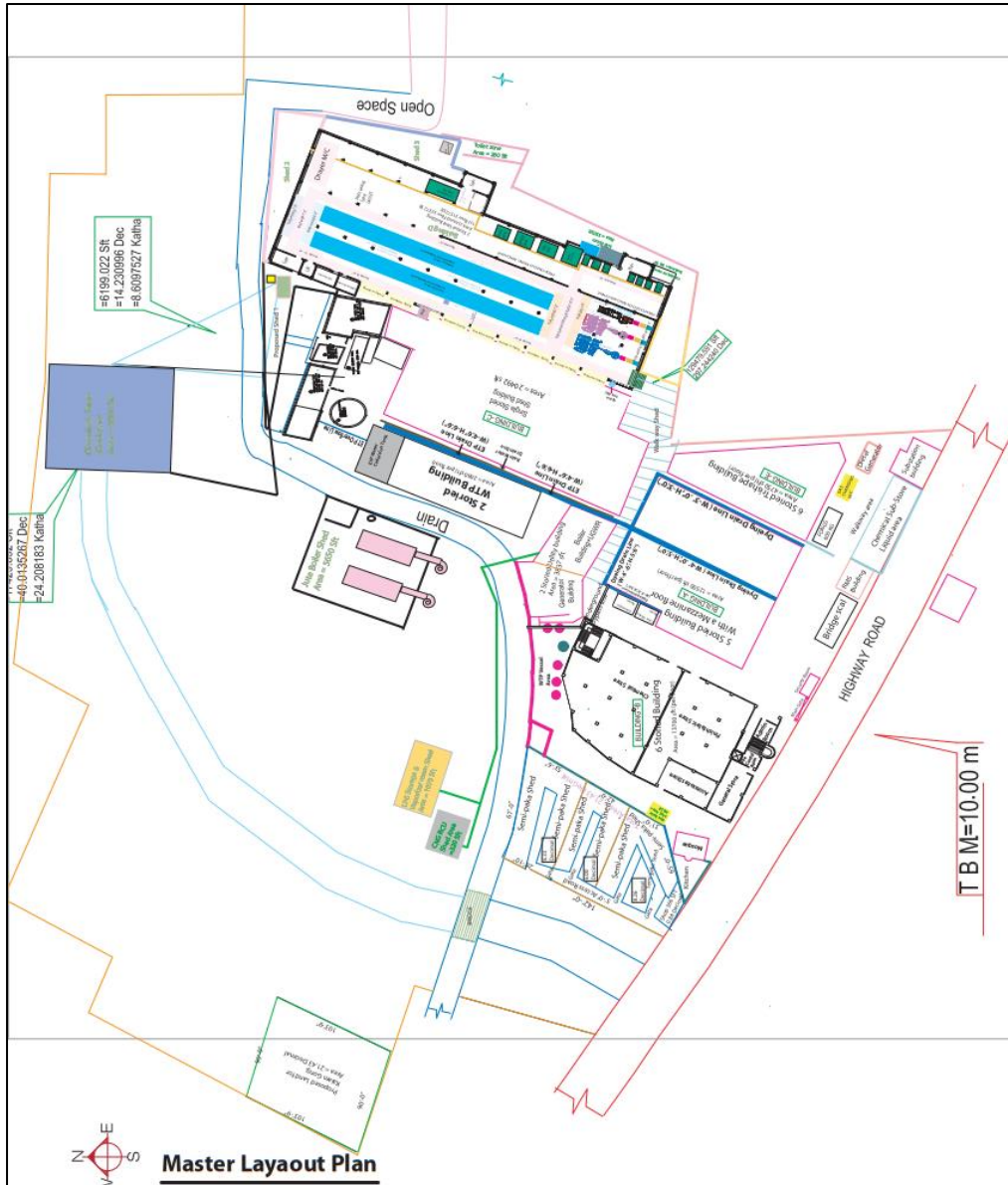
CNG RCU



LPG Storage & Vaporizer

Description: During inspection, corrosion was observed at several locations. The building engineer is required to remove rust and apply anti-corrosive paint on steel members.

Observation-11: Lack of as-built drawing and building permit approval from the local authority (all structures)



Description: During the inspection, building permits from the local authority were not available for any structure. The factory authority is required to collect building permits from the local authority for all structures.

3. Action Plan

Item No	Observation	Action Plan	Timeline
1.	Settlement of the floor, crack and tilting of the wooden shore pile in Shed 2 & 3.	Building engineer is required to commence the checking of the shore protection and the retaining wall capacity to evaluate the potential collapse at the edges of the shed 2, 3 near the water body.	Immediate
2.		Building engineer is required to appoint a geotechnical expert to investigate the cracks, settlement and tilting of the wooden pile. Any immediate safety measures need to be suggested in the investigation report.	Immediate
3.		Implement the interim safety measures as per the recommendation of the geotechnical expert.	Immediate
4.		Building engineer is required to submit the investigation report to the RSC for review.	within 6 weeks
5.		Carry out the required remedial work where required.	within 6 months
6.	Inconsistency between the construction drawing and the on-site conditions (Building D)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
7.	Non-credible as-built drawings & documentation, load plan missing. (Building D)	The building engineer is required to carry out a Detail Engineering Assessment (DEA).	within 6 weeks
8.		Produce a floor live load plan for all floor plates following BNBC requirements and based on column & foundation capacity.	within 6 weeks
9.		Carry out the required remedial works where required.	within 6 months
10.	Structural connection between Building D and Shed C	The building engineer is required to either physically separate the two structures or assess them as a single structural entity.	within 6 weeks
11.	Faulty erection (Building D)	Building engineer is required to investigate, identify & rectify all fabrication faults by suitable methods.	within 6 weeks
12.	Falling hazard (Building D)	The factory is required to provide railing or fall protection on the stairs.	within 6 weeks
13.	Corrosion on the steel member (Building D)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks

Item No	Observation	Action Plan	Timeline
14.	Lack of as-built drawing (Shed 2)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
15.	Lack of lateral stability system (Shed 2)	The building engineer is required to check the lateral stability of the shed as part of the Engineering Assessment (EA) and submit the EA to RSC.	within 6 weeks
16.		Carry out the required remedial works where required.	within 6 months
17.	Improper connection (Shed 2)	The building engineer is required to rectify all faulty connections by suitable methods.	within 6 weeks
18.	Corrosion on the steel member (Shed 2)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks
19.	Lack of as-built drawing (Shed 3)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
20.	Lack of lateral stability system (Shed 3)	The building engineer is required to check the lateral stability of the shed as part of the Engineering Assessment (EA) and submit the EA to RSC.	within 6 weeks
21.		Carry out the required remedial works where required.	within 6 months
22.	Corrosion on the steel member (Shed 3)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks
23.	Lack of as-built drawing (Toilet Zone)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
24.	Inadequate connection & member size [Toilet Zone]	The building engineer is required to check the adequacy of the connection & member size as part of the EA and submit the EA to RSC.	within 6 weeks
25.		Carry out the required remedial works where required.	within 6 months
26.	Corrosion on steel member (Toilet Zone)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks
27.	Lack of as-built drawing (Compressor room)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks

28.	Inadequate connection & member size [Compressor room]	The building engineer is required to check the adequacy of the connection & member size as part of the EA and submit the EA to RSC.	within 6 weeks
29.		Carry out the required remedial works where required.	within 6 months
30.	Lack of as-built drawing (SDB Room)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
31.	Lack of as-built drawing (Mini Boiler shed)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
32.	Inadequate connection & member size [Mini Boiler shed]	The building engineer is required to check the adequacy of the connection & member size as part of the EA and submit the EA to RSC.	within 6 weeks
33.		Carry out the required remedial works where required.	within 6 months
34.	Lack of as-built drawing (CNG RCU)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
35.	Inadequate connection & member size [CNG RCU]	The building engineer is required to check the adequacy of the connection & member size as part of the EA and submit the EA to RSC.	within 6 weeks
36.		Carry out the required remedial works where required.	within 6 months
37.	Corrosion on the steel member (CNG RCU)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks
38.	Lack of as-built drawing (LPG Storage & Vaporizer Room)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
39.	Lack of lateral stability system (LPG Storage & Vaporizer Room)	The building engineer is required to check the lateral stability of the shed as part of the Engineering Assessment (EA).	within 6 weeks
40.		Carry out the required remedial works where required.	within 6 months
41.	Corrosion on steel member (LPG Storage & Vaporizer Room)	The building engineer is required to remove rust and apply anti-corrosive paint on steel members.	within 6 weeks
42.	Lack of an as-built drawing (Jute Boiler Shed)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks

43.	Lack of a lateral stability system (Jhut Boiler Shed)	The building engineer is required to check the lateral stability of the shed as part of the Engineering Assessment (EA).	within 6 weeks
44.		Carry out the required remedial works where required.	within 6 months
45.	Lack of an as-built drawing (Chemical Shed)	The building engineer is required to survey the entire structure and prepare as-built drawings that accurately reflect the actual site conditions.	within 6 weeks
46.	Lack of a lateral stability system (Chemical Shed)	The building engineer is required to check the lateral stability of the shed as part of the Engineering Assessment (EA).	within 6 weeks
47.		Carry out the required remedial works where required.	within 6 months
48.	Lack of building permit approval from the local authority (all structures)	The factory authority is required to collect building permits from the local authority for all structures.	within 6 months