

PURBANI FASHION LIMITED

(New Building)

Kamarpara, Shernagar, Belkuchi, Sirajgong.
(24.282920, 89.688431)
15th March 2022



Building information:

Production Building: Six storied (G+5) reinforced concrete (RC) building.

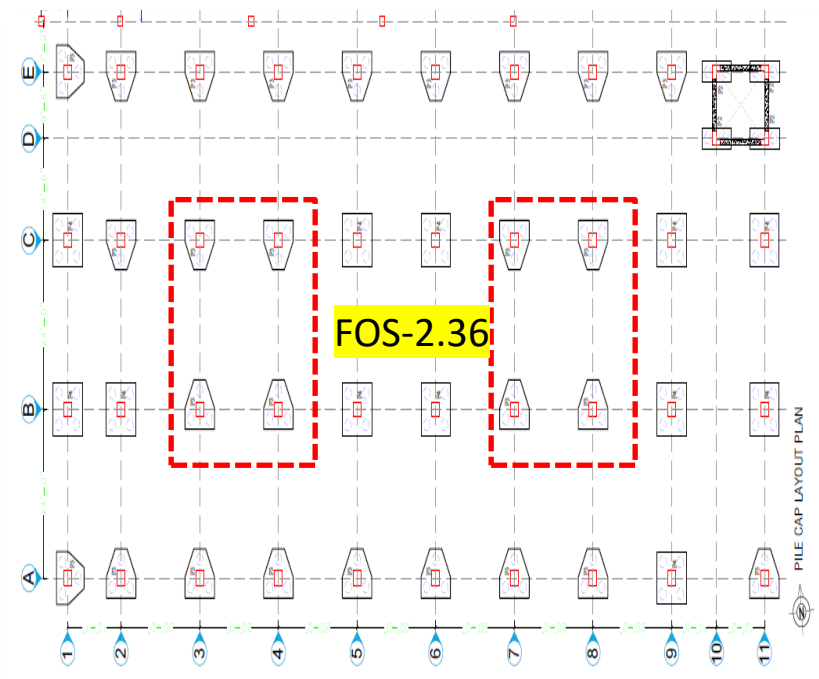
Utility Building: Two storied (B+G+1) reinforced concrete (RC) building with a basement.

Security Building: Two storied (G+1) reinforced concrete (RC) building..

Wastage Godown: Single storied steel portal frame shed.

Observations

Foundation stress marginally exceeds the normal design limit



Foundation layout plan

Base	29	SCOMB	718.704	3	239.57	608.00	2.54	OK
Base	30	SCOMB	718.739	3	239.58	608.00	2.54	OK
Base	31	SCOMB	628.447	3	209.48	608.00	2.90	OK
Base	32	SCOMB	643.621	3	214.54	608.00	2.83	OK
Base	33	SCOMB	719.754	3	239.92	608.00	2.53	OK
Base	34	SCOMB	713.894	3	237.96	608.00	2.56	OK
Base	35	SCOMB	647.643	3	215.88	608.00	2.82	OK
Base	36	SCOMB	643.727	3	214.58	608.00	2.83	OK
Base	37	SCOMB	774.535	3	258.18	608.00	2.5	OK
Base	38	SCOMB	616.364	3	205.45	608.00	2.96	OK
Base	39	SCOMB	857.383	4	214.35	608.00	2.84	OK
Base	40	SCOMB	393.234	3	131.08	608.00	4.64	OK
Base	41	SCOMB	750.954	4	187.74	608.00	3.24	OK
Base	42	SCOMB	817.973	4	204.49	608.00	2.97	OK
Base	43	SCOMB	509.155	3	169.72	608.00	3.58	OK

Foundation Check in DEA report

Cursory calculation indicates that the foundation stress marginally exceeds normal design limit for central column considering prepared live load plan and bearing capacity of foundation as per soil test report. Building engineer is required to review the design, load and foundation capacity.

Exposed rebar at roof



Corroded exposed rebar at roof

Building engineer is required to remove the corrosion from the rebar and provide suitable coating to protect it from further corrosion.

Falling hazard at pump room stair



Falling hazard at pump room stair

Building engineer is required to provide protection barrier at stair edges.

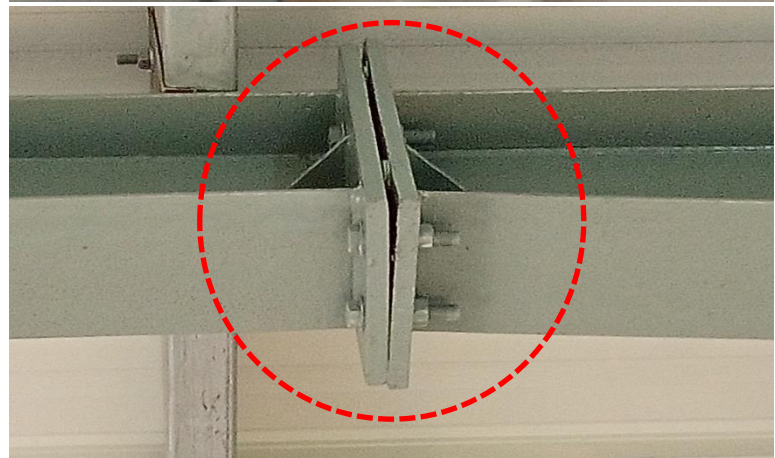
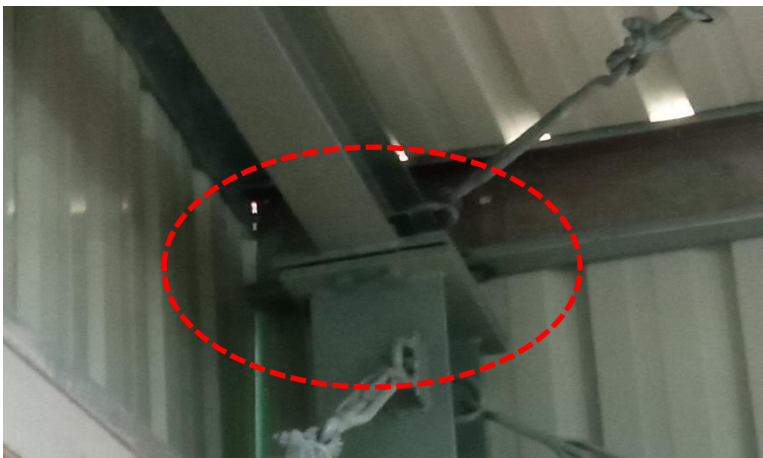
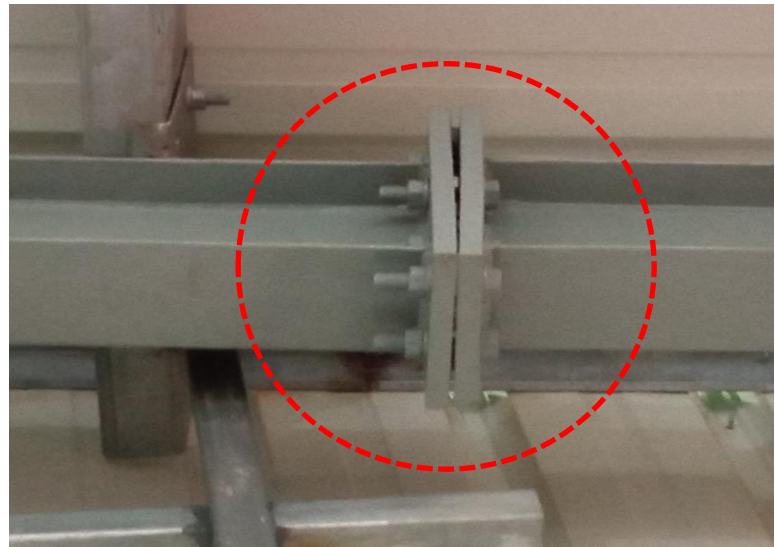
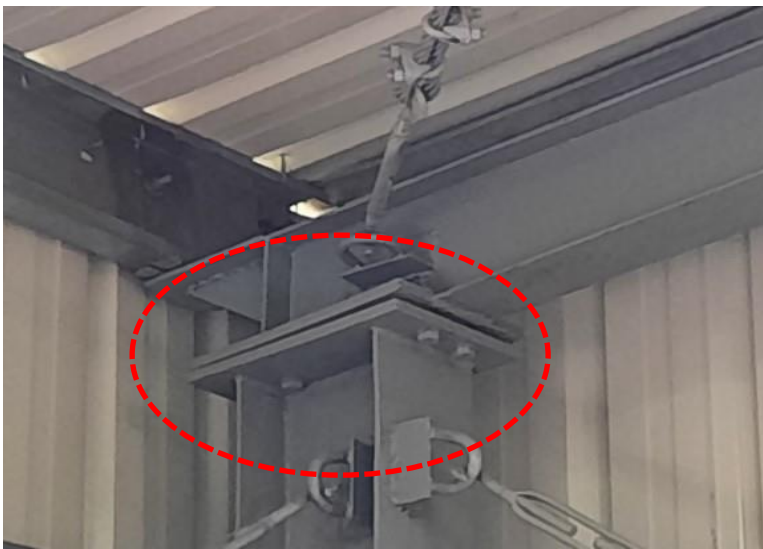
Absence of load transfer media in long direction



Absence of lateral load transfer media (compression strut) on roof

Building engineer is required to check the structural system of the structure and provide the appropriate load transfer media where required.

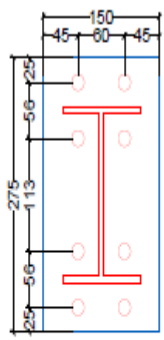
Significant gaps in connection



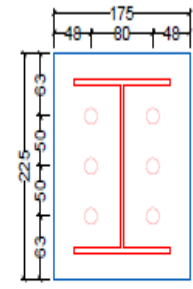
Connection gap in joints

Connection gaps in several locations were observed. Building engineer is required check the structure to identify the connection gaps and take action to fill up the connection gaps properly.

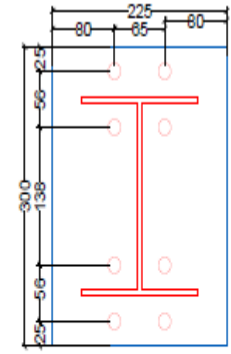
Inconsistency in connection details



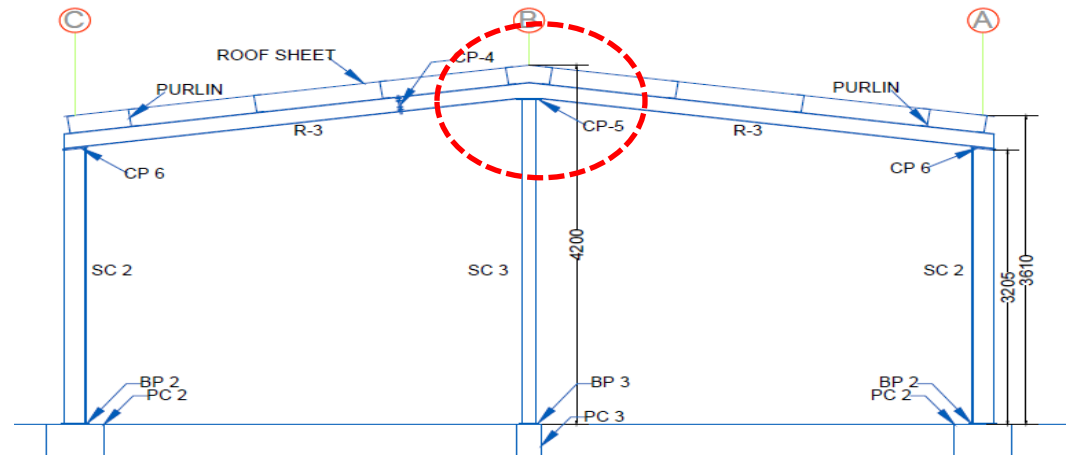
CP-4 = 275x150x16
8 nos Ø16 mm Bolt
Thick 16 mm



CP-5 = 225x175x16
6 nos Ø16 mm Bolt
Thick 16 mm



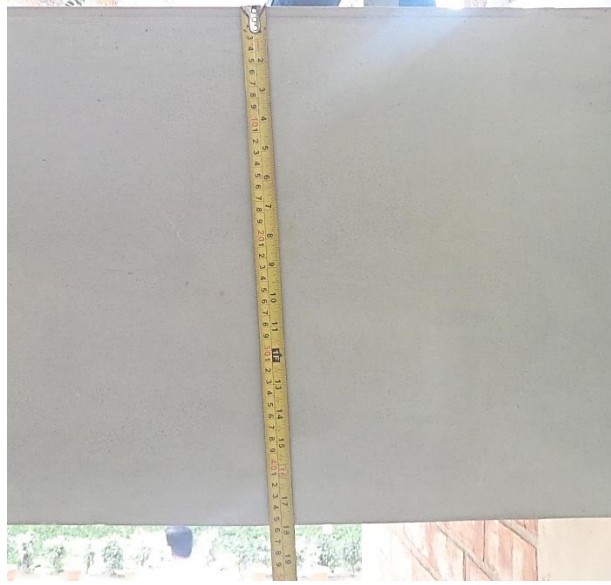
CP-6 = 300x225x16
8 nos Ø16 mm Bolt
Thick 16 mm



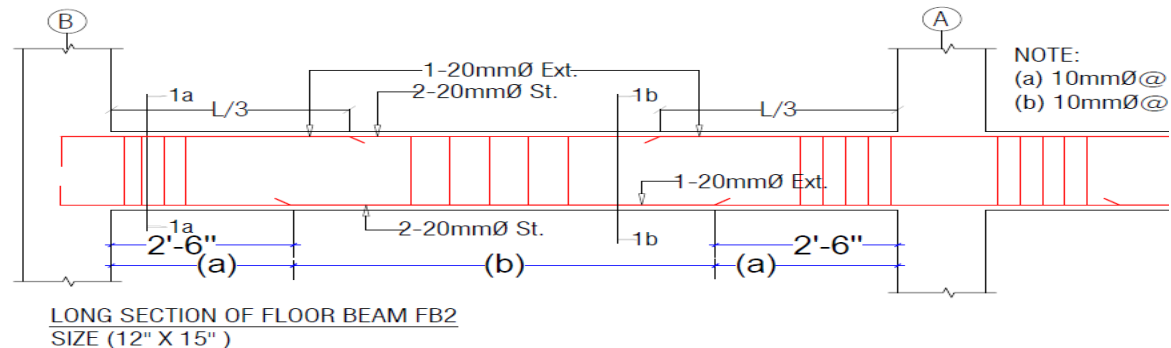
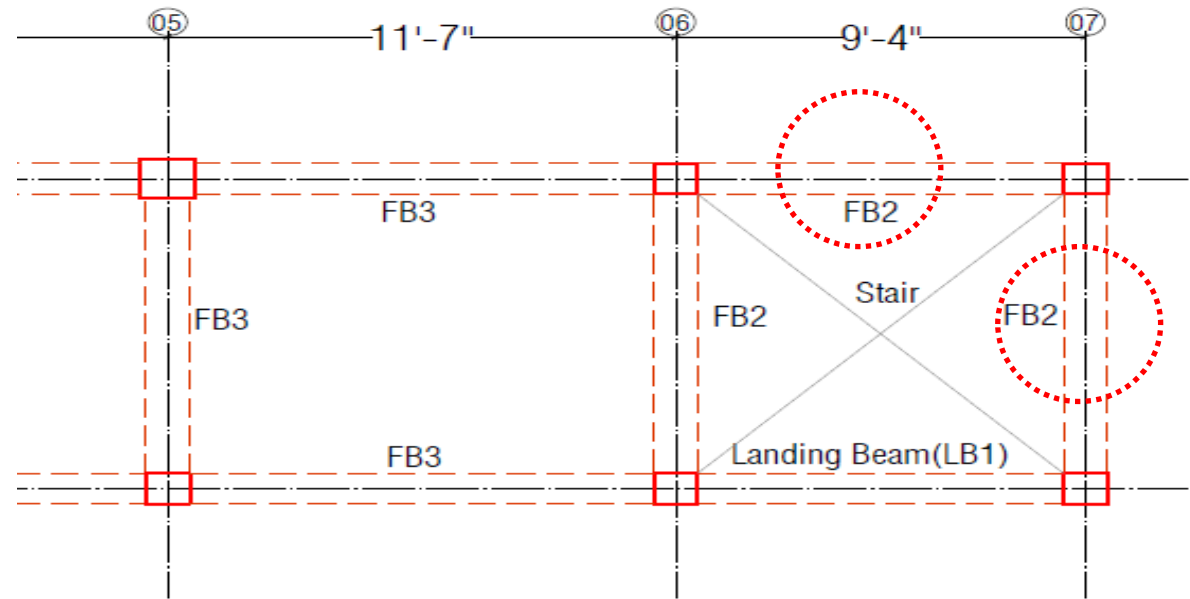
Building engineer to update the connection detail or install bolt as per structural drawings.

Welding connection found instead of bolt connection in drawing

Discrepancy in the drawings



Existing beam dimension
(300x 500)



Existing beam dimension (FB-2-300x500) doesn't match with the as built structural drawing beam layout (FB-2-300x375). Building engineer to survey the structure and prepare accurate as-built drawings.

Problems Observed

Production building:

Item 01: Foundation stress marginally exceeds the normal design limit.

Item 02: Expose rebar at roof.

Utility Building:

Item 03: Falling hazard at pump room stair.

Wastage Godown:

Item 04: Absence of load transfer media in long direction

Item 05: Significant gaps in connection.

Item 06: Inconsistency in connection details.

Security building:

Item 07: Discrepancies in as-built drawings.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Foundation stress marginally exceeds the normal design limit. (Production building)	Building engineer is required to review the design, load and foundation capacity.	6-weeks
02	Foundation stress marginally exceeds the normal design limit. (Production building)	Produce and actively manage a loading plan for all floor plates within the factory considering floor, column and foundation capacity.	6-weeks
03	Foundation stress marginally exceeds the normal design limit. (Production building)	Carry out remedial works where required.	6-months
04	Foundation stress marginally exceeds the normal design limit. (Production building)	Continue to implement floor loading plan.	6-months
05	Exposed rebar at roof. (Production Building)	Building engineer is required to remove the corrosion from the rebar and provide suitable coating to protect it from further corrosion.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Falling hazard at pump room stair: (Utility Building)	Provide protection barrier at stair edges.	6-weeks
07	Absence of load transfer media in long direction. (Wastage Godown)	As part of Engineering Assessment (EA), the building engineer is required to check the stability of the structure and suggest necessary remedial actions.	6-weeks
08	Absence of load transfer media in long direction. (Wastage Godown)	Carry out remedial works as the EA.	6-months
09	Significant gaps in connection. (Wastage Godown)	Building is required check the structure to identify the connection gaps and take action to fill up the connection gaps properly.	6-weeks
10	Inconsistency in connection details. (Wastage Godown)	Building engineer to update the connection detail or install bolt as per structural drawings.	6-weeks
11	Discrepancy in the drawings. (Security Building)	Building engineer is required to survey the structure and produce accurate as-built drawings.	6-weeks