



Dynasty Sweaters (BD) Ltd (Extended Building)

Aukpara, Ashulia, Savar, Dhaka, Bangladesh

(23.878780 N, 90.297666 E)

1st April, 2018





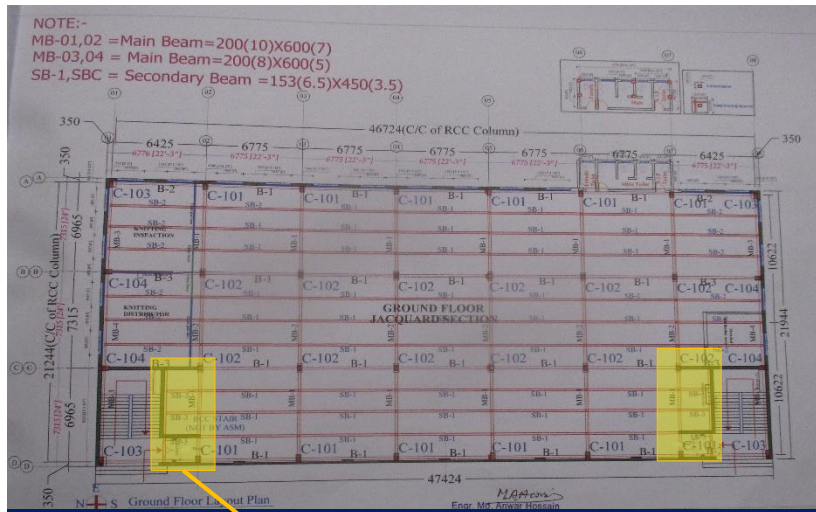
Observation



Mismatch in as-built drawings



13mm dia cable bracings were found whereas as-built drawing shows 16 mm. Also no details were provided in as-built drawings for sub-beam near stair.



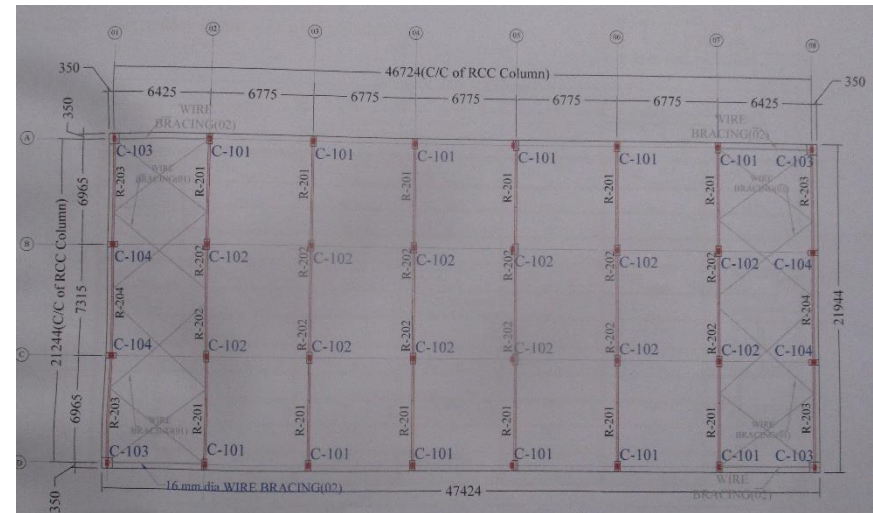
Beam Layout



Sub-Beam near stair



Dia of cable bracing



Bracing Layout



Missing Knee bracing & loose cable bracing



Gable Frame @ Grid :01&08

Engr. Md. Anwar Hossain

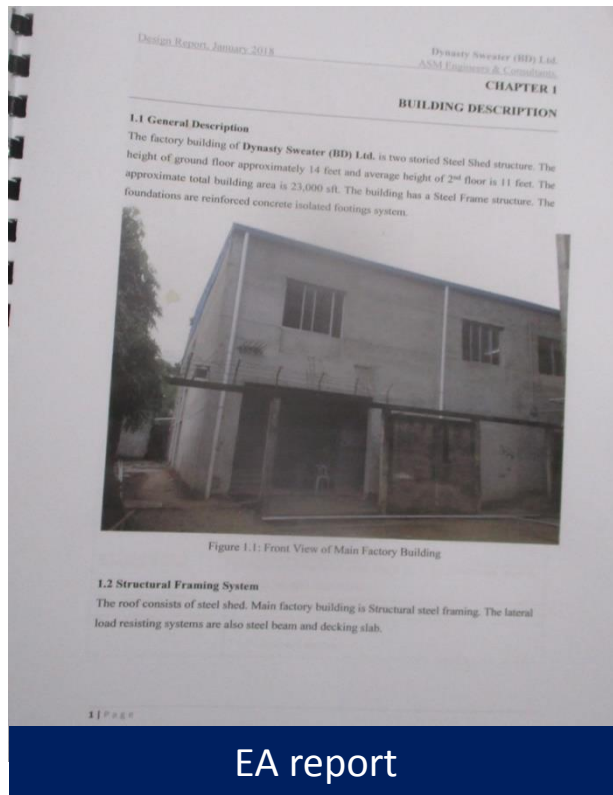
A close-up photograph of the interior of a storage container. A large, horizontal metal beam, heavily rusted and peeling, runs across the upper right portion of the frame. Below it, a concrete wall is visible, showing signs of wear and discoloration. In the foreground, several metal shelves or racks are visible, extending into the distance. The lighting is dim, highlighting the textures of the rust and concrete.

6

ACCORD
on Fire and Building Safety in Bangladesh



**Prepared engineering assessment
to be verified**



EA report



Typical truss section

An Engineering Assessment (EA) has been prepared following BNBC for the two storied steel building. Some members are found over stressed in the FEM model. Also, EQ load combination wasn't considered. Factory is required to submit the revised EA to Accord for further review.



Problems Observed

Extended Building:

Item-1: Mismatch in as-built drawings

Item-2: Missing Knee bracing & loose cable bracing.

Item-3: Prepared engineering assessment to be verified



Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Mismatch in as-built drawings	Building Engineer to survey the as-built structure and update the as-built drawings accordingly.	6-weeks
2	Missing Knee bracing & loose cable bracing	Building engineer is required to check the adequacy of the structure for the missing knee bracing and also check the connection of the cable bracing.	6-weeks
3	Missing Knee bracing & loose cable bracing	Building engineer to check and tighten all loose bracings.	6-weeks
4	Missing Knee bracing & loose cable bracing	Complete remedial works if required in assessment report.	6-months
5	Prepared engineering assessment to be verified	Complete the review of Engineering Assessment with Accord.	6-weeks
6	Prepared engineering assessment to be verified	Complete remedial works arising from engineering assessment after reviewed by Accord.	6-months