

Amtranet Limited

Kasba Tower, 160, West Rajashon, Savar
(23.846122N, 90.272494E)

29 April 2014



Observations

**Columns appear to be stressed in excess of
normal design limits**

Priority Action

Problems Observed

Columns appear to be stressed in excess of normal design limits

Concrete strength in columns in the material test certificate varies from a min of 13MPa to a max of 20 MPa.

CONCRETE LABORATORY

BRTS No: 1190-2000/11-13/02, Dt: 11/03/12

Ref No: 1190-2000/11-13/02

Project: Construction work of Ashraf Group (Shila Tower)

Sample: Cylinder (300mm diameter x 600mm height)

Location: Not mentioned

Test: Compressive Strength (ASTM C39)

Date of Test: 11/03/12

Sl. No.	Date of Casting as per the Label	Specimen Designation	Specimen Area (mm ²)	Specimen Length (mm)	Cracking Strength (MPa)	Average Compressive Strength (MPa)	Mode of Failure
1	05/03/12	1190-2000/11-13/02	300.00	600.00	13.00	13.00	Cracked
2	05/03/12	1190-2000/11-13/02	300.00	600.00	13.00	13.00	Cracked
3	05/03/12	1190-2000/11-13/02	300.00	600.00	13.00	13.00	Cracked

Note: Samples were received in unstressed condition.

Countersigned by: Dr. Md. Asad Raza, Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

Test Performed by: Md. Asad Raza, Assistant Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

CONCRETE LABORATORY

BRTS No: 1190-2001/11-13/02, Dt: 11/03/12

Ref No: 1190-2001/11-13/02

Project: Ashraf Group (Shila Tower)

Sample: Cylinder (300mm diameter x 600mm height)

Location: Not mentioned

Test: Compressive Strength (ASTM C39)

Date of Test: 11/03/12

Sl. No.	Date of Casting as per the Label	Specimen Designation	Specimen Area (mm ²)	Specimen Length (mm)	Cracking Strength (MPa)	Average Compressive Strength (MPa)	Mode of Failure
1	05/03/12	1190-2001/11-13/02	300.00	600.00	13.00	13.00	Cracked
2	05/03/12	1190-2001/11-13/02	300.00	600.00	13.00	13.00	Cracked
3	05/03/12	1190-2001/11-13/02	300.00	600.00	13.00	13.00	Cracked

Note: Samples were received in unstressed condition.

Countersigned by: Dr. Md. Asad Raza, Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

Test Performed by: Md. Asad Raza, Assistant Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

CONCRETE LABORATORY

BRTS No: 1190-2700/11-13/02, Dt: 11/03/12

Ref No: 1190-2700/11-13/02

Project: Ashraf Group (Shila Tower)

Sample: Cylinder (300mm diameter x 600mm height)

Location: Not mentioned

Test: Compressive Strength (ASTM C39)

Date of Test: 11/03/12

Sl. No.	Date of Casting as per the Label	Specimen Designation	Specimen Area (mm ²)	Specimen Length (mm)	Cracking Strength (MPa)	Average Compressive Strength (MPa)	Mode of Failure
1	05/03/12	1190-2700/11-13/02	300.00	600.00	13.00	13.00	Cracked
2	05/03/12	1190-2700/11-13/02	300.00	600.00	13.00	13.00	Cracked
3	05/03/12	1190-2700/11-13/02	300.00	600.00	13.00	13.00	Cracked

Note: Samples were received in unstressed condition.

Countersigned by: Dr. Md. Asad Raza, Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

Test Performed by: Md. Asad Raza, Assistant Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

CONCRETE LABORATORY

BRTS No: 1190-2801/11-13/02, Dt: 11/03/12

Ref No: 1190-2801/11-13/02

Project: Ashraf Group (Shila Tower)

Sample: Cylinder (300mm diameter x 600mm height)

Location: Not mentioned

Test: Compressive Strength (ASTM C39)

Date of Test: 11/03/12

Sl. No.	Date of Casting as per the Label	Specimen Designation	Specimen Area (mm ²)	Specimen Length (mm)	Cracking Strength (MPa)	Average Compressive Strength (MPa)	Mode of Failure
1	05/03/12	1190-2801/11-13/02	300.00	600.00	13.00	13.00	Cracked
2	05/03/12	1190-2801/11-13/02	300.00	600.00	13.00	13.00	Cracked
3	05/03/12	1190-2801/11-13/02	300.00	600.00	13.00	13.00	Cracked

Note: Samples were received in unstressed condition.

Countersigned by: Dr. Md. Asad Raza, Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

Test Performed by: Md. Asad Raza, Assistant Professor, Department of Civil Engineering, BUET, Dhaka 1000, Bangladesh.

CONCRETE LABORATORY

BRTS No: 1190-2810/11-13/02, Dt: 11/03/12

Ref No: 1190-2810/11-13/02

Project: Ashraf Group (Shila Tower)

Sample: Cylinder (300mm diameter x 600mm height)

Location: Not mentioned

Test: Compressive Strength (ASTM C39)

Date of Test: 11/03/12

Sl. No.	Date of Casting as per the Label	Specimen Designation	Specimen Area (mm ²)	Specimen Length (mm)	Cracking Strength (MPa)	Average Compressive Strength (MPa)	Mode of Failure
1	05/03/12	1190-2810/11-13/02	300.00	600.00	13.00	13.00	Cracked
2	05/03/12	1190-2810/11-13/02	300.00	600.00	13.00	13.00	Cracked
3	05/03/12	1190-2810/11-13/02	300.00	600.00	13.00	13.00	Cracked

Note: Samples were received in unstressed condition.

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Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Concrete strength in columns	Factory engineer to review design, loads and column stresses of the columns. Verify concrete stresses either by 100mm dia cores or existing cylinder strength data for the identified columns or 100mm dia. cores from 4 columns. Verify with the design engineer what concrete strength was used in the design and if this is supported by material tests certificate.	6-weeks