BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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CONCRETE LABORATORY

BRTC
Bureau of Research, Testing & Consultation

BRTC No. : **1103-72665/CE /25-26/; Dt: 28/1/2026**
Sent by : Md. Nasir Uddin, Project Manager, Mcgrath Real Estate Ltd.
Sel Rose-N-Dale, Suit-1101, 116 Kazi Nazrul Islam Avenue, Dhaka.
Ref. No. : Jovada Mat; Dt: 28/1/2026
Project : Jovada garden, Plot-151, Block-B, Khilgaon, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : Foundation
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 29/1/2026

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Type of Fracture* (Mode of Failure)
			(sq. in)	(lb)	(psi)		
1	30/12/2025	-	12.30	59,989	4,877	**4950 psi**	Type 5 (Combined **)
2	**(30 days test)**	-	12.54	63,809	5,088	(34.1 MPa)	Type 2 (Combined **)
3		-	12.54	61,112	4,873	(348 kg/cm²)	Type 3 (Combined **)

Note: Samples were received in unsealed condition. ** Combined = Mortar and Aggregate Failure.

*Type of Fracture (as per ASTM C39/C39M - 21):

Type 1: Well-formed cone
Type 2: Well-formed cone with vertical crack
Type 3: Columnar vertical cracks
Type 4: Diagonal cracks
Type 5: Side fractures at top or bottom
Type 6: Side fractures at top or bottom but end of cylinder is pointed

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Countersigned *by*:

Prof. Dr. Bashir Ahmed
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

03/02/2026
Dr. Sheikh Mokhlesur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

Important Notes: Samples as supplied to us have been tested in our laboratory. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/packet/container under signature of the competent authority. In order to avoid fraudulent fabrication of test results, it is recommended that all test reports are collected by duly authorized person, and not by the Contractor/Supplier.

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BRTC No. : **1103-72724/CE /25-26/; Dt: 29/1/2026**
Sent by : Md. Jahangir Alam, Asst. Manager (QAD).
Mirpur Concrete Readymix Plant.
Ref. No. : Letter; Dt: 26/1/2026
Project : McGrath Real Estate Ltd., Sishu Park Road Beside Matir Mosjid, Khilgaon, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Not mentioned]
[Admixture added (as per letter): Not mentioned]
Location : Mat Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 31/1/2026

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Type of Fracture* (Mode of Failure)
			(sq. in)	(lb)	(psi)		
1	30/12/2025	McGrath	11.81	63,809	5,403	**5250 psi**	Type 1 (Combined **)
2	**(32 days test)**	McGrath	12.17	61,786	5,077	(36.2 MPa)	Type 1 (Combined **)
3		McGrath	11.69	61,562	5,266	(369 kg/cm²)	Type 5 (Combined **)

Note: Samples were received in unsealed condition.

** Combined = Mortar and Aggregate Failure.

*Type of Fracture (as per ASTM C39/C39M - 21):

Type 1: Well-formed cone
Type 2: Well-formed cone with vertical crack
Type 3: Columnar vertical cracks
Type 4: Diagonal cracks
Type 5: Side fractures at top or bottom
Type 6: Side fractures at top or bottom but end of cylinder is pointed

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Countersigned *by*:

Prof. Dr. Moazzem Hossain
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

01/02/2026

Md.Imran Hossain
Lecturer
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY

BRTC No. : **1103-80638/CE /25-26/; Dt: 14/5/2026**
Sent by : Alamgir Kabir, QC Laboratory In Charge (BRMCIL)
Tower 1, Plot 844, Road 12, Block I, Bashundhara R/A, Dhaka-1229
Ref. No. : BRMCIL-BRTC/QC/U-01/2026/197; Dt: 10/5/2026
Project : McGrath Development Ltd., Plot 151, Block-B, Khilgaon, Dhaka-1311
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Nicrocrete 1500] Design Strength: 3500 PSI
Location : Basement Roof Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 16/5/2026

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Type of Fracture* (Mode of Failure)
			(sq. in)	(lb)	(psi)		
1	5/4/2026	McGrath Development	12.67	73,052	5,766	**5620 psi**	Type 5 (Combined **)
2	**(41 days test)**	McGrath Development	12.42	65,258	5,254	(38.7 MPa)	Type 2 (Combined **)
3		McGrath Development	12.54	73,052	5,826	(395 kg/cm²)	Type 5 (Combined **)

Note: Samples were received in sealed condition. ** Combined = Mortar and Aggregate Failure.

*Type of Fracture (as per ASTM C39/C39M - 21):

Type 1: Well-formed cone	Type 4: Diagonal cracks
Type 2: Well-formed cone with vertical crack	Type 5: Side fractures at top or bottom
Type 3: Columnar vertical cracks	Type 6: Side fractures at top or bottom but end of cylinder is pointed

Countersigned *by*:

Prof. Dr. Bashir Ahmed
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

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19-May-26

Sadab Ishraq Khan
Lecturer
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY

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BRTC No. : **1103-83309/CE /25-26/; Dt: 20/6/2026**
Sent by : Md. Al Imran, Senior Engineer, Mir Concrete Products Ltd.
Plant-1, Sluice Gate, Gabtoli, Dhaka.
Ref. No. : MCPL/2026/Mcgrath Development Ltd.; Dt: 18/6/2026
Project : McGrath Jovada Garden, Plot: 151, Block: B, Khilgaon
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Sikaplast 2025 NSBD]
Location : Slab Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 22/6/2026

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Type of Fracture* (Mode of Failure)
			(sq. in)	(lb)	(psi)		
1	25/5/2026	McGrath J	11.93	57,758	4,841	**4790 psi**	Type 1 (Combined **)
2	**(28 days test)**	McGrath J	12.05	55,527	4,608	(33 MPa)	Type 1 (Combined **)
3		McGrath J	12.17	59,989	4,929	(337 kg/cm²)	Type 5 (Combined **)

Note: Samples were received in unsealed condition. ** Combined = Mortar and Aggregate Failure.

*Type of Fracture (as per ASTM C39/C39M - 21):
Type 1: Well-formed cone
Type 2: Well-formed cone with vertical crack
Type 3: Columnar vertical cracks
Type 4: Diagonal cracks
Type 5: Side fractures at top or bottom
Type 6: Side fractures at top or bottom but end of cylinder is pointed

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Countersigned *by*:

Prof. Dr. Bashir Ahmed
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Test Performed *by*:

24/06/2026

Dr. Sumaiya Afroz
Assistant Professor
Department of Civil Engineering
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Important Notes: Samples as supplied to us have been tested in our laboratory. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/packet/container under signature of the competent authority. In order to avoid fraudulent fabrication of test results, it is recommended that all test reports are collected by duly authorized person, and not by the Contractor/Supplier.

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