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. : **1103-87478/CE /26-27/; Dt: 20/8/2026**
Sent by : Md Jahangir Alam, Deputy Manager (QAD)
Mirpur Concrete Readymix Plant.
Ref. No. : Letter; Dt: 20/8/2026
Project : McGrath Real Estate ltd. Plot-113,Middile Basabo,Post Office Goli,Khilgaon,Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : 2nd Floor Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 22/8/2026

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	25/7/2026	McGrath	11.93	49,494	4,149	**4120 psi**	Type 2 (Combined **)
2	**(28 days test)**	McGrath	11.93	48,810	4,091	(28.4 MPa)	Type 3 (Combined **)
3		McGrath	11.93	49,038	4,110	(290 kg/cm²)	Type 3 (Combined **)

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

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*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

Countersigned *by* :

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

Test Performed *by* :

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

Dr. Munaz Ahmed Noor
Professor
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
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BRTC No. : **1103-87141/CE /26-27/; Dt: 16/8/2026**
Sent by : Md. Alamgir Kabir, QC Laboratory In-Charge (BRMCIL)
BIHQ, Tower-1, Plot: 844, Road: 12, Block: I, Bashundhara R/A.
Ref. No. : BRMCIL-BRTC/QC/U-04/2026/2982; Dt: 16/8/2026
Project : Mcgrath Developments Ltd., Mcgrath Rizia, Plot-113, Middle Basabo Post Office, Khilgaon.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Nirocrete-1500]
Location : 1st Floor Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 19/8/2026

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	1/7/2026	Mcgrath Deve 3500 psi	12.67	77,087	6,084	**5780 psi**	Type 3 (Combined **)
2	**(49 days test)**	Mcgrath Deve 3500 psi	12.54	71,514	5,703	(39.9 MPa)	Type 3 (Combined **)
3		Mcgrath Deve 3500 psi	12.30	68,170	5,542	(406 kg/cm²)	Type 1 (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 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* :

22/08/2026

Dr. Md. Aziful Islam
Assistant Professor
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 Bureau of Research, Testing & Consultation

BRTC No. : **1103-83353/CE /25-26/; Dt: 20/6/2026**
Sent by : Md Jahangir Alam, Deputy Manager (QAD)
Mirpur Concrete Readymix Plant.
Ref. No. : Letter; Dt: 16/6/2026
Project : McGrath Real Estate Ltd, Plot-113, Post office Goli, Middle Basabo, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : Ground Floor Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 21/6/2026

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	19/5/2026	McGrath	12.17	50,863	4,179	**4080 psi**	Type 4 (Combined **)
2	**(33 days test)**	McGrath	12.30	49,494	4,024	(28.1 MPa)	Type 4 (Combined **)
3		McGrath	12.54	50,635	4,038	(287 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* :

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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CONCRETE LABORATORY

BRTC
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BRTC No. : **1103-76866/CE /25-26/; Dt: 31/3/2026**
Sent by : Md. Jahangir Alam, Deputy Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka.
Ref. No. : Letter; Dt: 24/3/2026
Project : McGrath Real Estate Ltd., Plot: 113, Middle Basabo, Khilgaon, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : Footing Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39/C39M - 21]**
Date of Test : 1/4/2026

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	24/2/2026	McGrath	12.67	52,718	4,161	**4000 psi**	Type 3 (Combined **)
2	**(36 days test)**	McGrath	12.17	48,265	3,966	(27.6 MPa)	Type 3 (Combined **)
3		McGrath	12.42	48,265	3,886	(281 kg/cm²)	Type 2 (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*:

Mahbuba
02/04/2026

Dr. Mahbuba Begum
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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