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. : **1103-50328/CE /24-25/; Dt: 23/4/2025**
Sent by : Engr. Md. Masudul Haque Bhuiyan/Sr. DGM/Mir Ready Mix Concrete.
Beribadh, Sluice Gate, Gabtoli, Dhaka-1207.
Ref. No. : MCPL-1/2024/McGrath Development Ltd.; Dt: 23/4/2025
Project : McGrath Dhanshiri, Shantibagh.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Fosroc Auramix 300]
Location : Slab Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 24/4/2025

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	23/3/2025	McGrath Devel	12.30	62,490	5,081	**5410 psi**	Combined *
2	(32 days test)	McGrath Devel	12.42	70,420	5,670	(37.3 MPa)	Combined *
3		McGrath Devel	12.67	69,287	5,469	(380 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

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 ★

26.4.25

Tazwar Bakhtiyar Zahid
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.

BUETCE 054054

1st Floor 2nd Phase Casting on 23-03-2025.

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-49084/CE /24-25/; Dt: 13/4/2025**
Sent by : Engr Md. Masudul Haque Bhuiyan, Sr. DGM, Operation-Factory in Charge, Mir Ready Mix Concrete. Beri Bandh, Sluice Gate, Gabtoli, Dhaka-1207.
Ref. No. : MCPL-1/2025/Mcgrath Development Ltd; Dt: 13/4/2025
Project : Mcgrath Dhansiri, Shantibagh.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix] [Admixture added (as per letter): Fosroc Auramix 300]
Location : Slab.
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 15/4/2025

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	7/3/2025	Mcgrath Deve	12.30	72,816	5,920	**6320 psi**	Combined *
2	(39 days test)	Mcgrath Deve	12.06	79,429	6,586	(43.6 MPa)	Combined *
3		Mcgrath Deve	11.94	77,225	6,468	(444 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure

Countersigned *by*:

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

Test Performed *by*:

16/04/2025

Sakib Hasnat
Lecturer
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.

BUETCE 0543113

GF 2nd Phase Casting on 07-03-2025.

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DEPARTMENT OF CIVIL ENGINEERING

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-49084/CE /24-25/; Dt: 13/4/2025**
Sent by : Engr Md. Masudul Haque Bhuiyan, Sr. DGM, Operation-Factory in Charge, Mir Ready Mix Concrete. Beri Bandh, Sluice Gate, Gabtoli, Dhaka-1207.
Ref. No. : MCPL-1/2025/Mcgrath Development Ltd; Dt: 13/4/2025
Project : Mcgrath Dhansiri, Shantibagh.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix] [Admixture added (as per letter): Fosroc Auramix 300]
Location : Slab.
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 15/4/2025

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	1/3/2025	Mcgrath Deve	12.06	77,225	6,403	**6240 psi**	Combined *
2	(45 days test)	Mcgrath Deve	11.94	75,021	6,283	(43 MPa)	Combined *
3		Mcgrath Deve	12.06	72,816	6,038	(439 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

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

16/04/2025

Sakib Hasnat
Lecturer
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.

BUETCE 054112

3rd Floor 1st Phase Casting on 01-03-2025.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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BRTC
Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-45977/CE /24-25/; Dt: 3/3/2025**
Sent by : Md. Jahangir Alam
Asst. Manager(QAD), Mirpur Concrete Readymix Plant
Ref. No. : Letter; Dt: 26/2/2025
Project : McGrath Real Estate ltd, 15-17 Santibagh, Santinagar, 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]**
Date of Test : 5/3/2025

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	31/1/2025	McGrath	12.18	45,090	3,702	**4100 psi**	Combined *
2	(33 days test)	McGrath	12.42	51,905	4,179	(28.3 MPa)	Combined *
3		McGrath	12.30	54,177	4,405	(288 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

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

06-Mar-25

Nishatee Binte Shahid
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.

BUETCE 05338 23

Basement 2nd Phase Casting on31-01-2025.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-41623/CE /24-25/; Dt: 16/1/2025**
Sent by : Eng Md. Masudul Haque Bhuiyan, Sr. DGM, Operation Factory in Charge
Mir Ready Mix Concrete
Ref. No. : MCPL 1/2024/McGrath Development Limited; Dt: 2/1/2025
Project : McGrath Dhansiri, Santibagh

Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Fosroc Auramix 300]

Location : Mat Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 18/1/2025

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	19/12/2024	McGrath	12.06	77,216	6,403	**6670 psi**	Combined *
2	(30 days test)	McGrath	12.55	82,880	6,604	(46 MPa)	Combined *
3		McGrath	12.30	86,278	7,014	(469 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned by :

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

Test Performed by :

21/1/25

Department of Civil Engineering ★ BUET, Dhaka-1000, Bangladesh ★

Md. Amin Al Noor
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.

BUETCE 052287

MAT 2nd Phase casting on 19-12-2024.

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-37374/CE /24-25/; Dt: 30/11/2024**
Sent by : Engr. Md. Masudul Haque Bhuiyan, Sr. DGM, Operation Factory In Charge, Mir Ready Mix Concrete MCPL-1, Sluice Gate, Gabtoli, Dhaka.
Ref. No. : MCPL-1/2024/Mcgrath Development Ltd.; Dt: 25/11/2024
Project : Mcgrath Dhanshiri, Shantibagh.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix] [Admixture added (as per letter): Fosroc Auramix 300]
Location : Slab Casting
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 1/12/2024

TEST REPORT

SL. No.	Date *of* Casting *as* per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode *of* Failure
			(sq. in)	(lb)	(psi)		
1	30/10/2024	Mcgrath	11.94	56,449	4,728	**4540 psi**	Combined *
2	(32 days test)	Mcgrath	11.70	51,905	4,436	(31.3 MPa)	Combined *
3		Mcgrath	12.18	54,177	4,448	(319 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by

Department of Civil Engineering ★ BUET, Dhaka-1000, Bangladesh ★

02/12/2024

Dr. Md. Mafizur Rahman
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.

BUETCE 0511217

2nd Floor 1st Phase 30-10-2024.

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-33701/CE /24-25/; Dt: 17/10/2024**
Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka.
Ref. No. : Letter; Dt: 17/9/2024
Project : McGrath Real Estate Ltd., Santibagh, Malibaghmor, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : 1st Floor Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 19/10/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	21/9/2024	McGrath	12.18	55,582	4,563	**4270 psi**	Combined *
2	**(28 days test)**	McGrath	12.18	50,173	4,119	(29.4 MPa)	Combined *
3		McGrath	12.18	50,389	4,137	(300 kg/cm²)	Combined *

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

Countersigned *by* :

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by* :

Department of Civil Engineering ★ BUET, Dhaka-1000, Bangladesh ★

23/10/2024

Dr. S.M. Faisal Mahmood
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.

BUETCE 0502559

1st Floor 1st Phase Casting on 21-09-2024.

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-29859/CE /24-25/; Dt: 28/8/2024**
Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka.
Ref. No. : Letter; Dt: 26/8/2024
Project : McGRath Real Estate ltd. Malibagh Mor, Shantibagh, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]
Location : 1st Floor Slab
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 29/8/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	31/7/2024	McGrath	12.55	61,725	4,918	**5100 psi**	Combined *
2	**(29 days test)**	McGrath	12.67	65,032	5,133	(35.2 MPa)	Combined *
3		McGrath	12.18	63,930	5,249	(359 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

*Combined = Mortar and Aggregate Failure.

Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

31/08/2024

Tazwar Bakhtiyar Zahid
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.

BUETCE 0490934

GF 1st Phase Casting on 31-07-2025.

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DEPARTMENT OF CIVIL ENGINEERING

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-26150/CE /23-24/; Dt: 29/6/2024**
Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka.
Ref. No. : Letter; Dt: 25/6/2024
Project : McGrath Real Estate Ltd., Malibagh, 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]**
Date of Test : 30/6/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	29/5/2024	Mcgrath	11.94	78,955	6,613	**6360 psi**	Combined *
2	(32 days test)	Mcgrath	11.94	72,190	6,046	(43.8 MPa)	Combined *
3		Mcgrath	11.94	76,700	6,424	(447 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

01/07/2024

Dr. Abdul Jabbar Khan
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.

BUETCE 01.81229

Basement 1st Phase Casting on 29-05-2024.

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-22571/CE /23-24/; Dt: 15/5/2024**

Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka.

Ref. No. : Letter; Dt: 14/5/2024

Project : McGrath Real Estate Ltd., Malibagh Mor, Malibagh, Dhaka.

Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Not mentioned]
[Admixture added (as per letter): Not mentioned]

Location : Basement

Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**

Date of Test : 16/5/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	4/4/2024	McGrath	12.42	72,231	5,816	**5780 psi**	Combined *
2	(42 days test)	McGrath	12.42	72,231	5,816	(39.9 MPa)	Combined *
3		McGrath	12.67	72,231	5,701	(406 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by:

18/05/2024

Dr. Md. Zakaria Ahmed
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.

BUETCE 00 18 210

MAT 1st Phase (1-3) Casting on 04-04-2024.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-20248/CE /23-24/; Dt: 23/4/2024**

Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant.
D.T Road, Pahartali, Chittagong, Bangladesh,

Ref. No. : Letter; Dt: 23/4/2024

Project : McGrath Real Estate Ltd. Malibagh Mor, Shantinagar, 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]**

Date of Test : 24/4/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	28/3/2024	McGrath	12.30	59,788	4,861	**5120 psi**	Combined *
2	(27 days test)	McGrath	11.82	63,181	5,345	(35.3 MPa)	Combined *
3		McGrath	12.06	62,050	5,145	(360 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure

Countersigned *by* :

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by* :

27/04/2024

Tazwar Bakhtiyar Zahid
Lecturer
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.

BUETCE 001977

MAT 1st Phase (1-2) Casting on 28-03-2024.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING
Mobile: 01819557964; PABX: 55666000-2 Ext. 7226
http://brtctest.ce.buet.ac.bd

BRTC Bureau of Research, Testing & Consultation

CONCRETE LABORATORY

BRTC No. : **1103-20083/CE /23-24/; Dt: 22/4/2024**

Sent by : Md. Jahangir Alam, Asst. Manager (QAD), Mirpur Concrete Readymix Plant
Empori Financial Center, Level #6, Plot #6, Road #93, North Avenue, Gulshan 2, Dhaka-1212.

Ref. No. : Letter; Dt: 22/4/2024

Project : McGrath Real Estate Ltd., Malibagh Mor, Shantinagar, Dhaka

Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Ready Mix]
[Admixture added (as per letter): Not mentioned]

Location : Mat

Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**

Date of Test : 23/4/2024

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	27/3/2024	McGrath	12.67	53,398	4,214	**4340 psi**	Combined *
2	(27 days test)	McGrath	12.42	51,693	4,162	(29.9 MPa)	Combined *
3		McGrath	12.42	57,659	4,642	(305 kg/cm²)	Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned by :

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by :

30/04/2024

Mahbubah Ahmed
Lecturer
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.

BUETCE 00 13736

MAT 1st Phase (1-1) on 27-03-2024

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CONCRETE LABORATORY

BRTC
Bureau of Research, Testing & Consultation

BRTC No. : **1103-19160/CE /23-24/; Dt: 3/4/2024**
Sent by : Mehedi Hasan Ankon, Project Manager, McGrath Real Estate
Sel Rose-N-Dale, Suit# 1101,116 Kazi Narul Islam Avenue, Ramna, Dhaka.
Ref. No : Letter; Dt: 3/4/2024
Project : McGrath-Dhanshiri, H#15, 17, Shantibagh, Dhaka.
Sample : **Concrete Cylinder** [Aggregate type: Stone chips, Mix proportion (as quoted): Not mentioned]
[Admixture added (as per letter): Not mentioned]
Location : Pile Cap (PC-4)
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 4/4/2024

TEST REPORT

SL. No.	Date *of* Casting *as* per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode *of* Failure
			(sq. in)	(lb)	(psi)		
1	11/3/2024	DS-1	12.18	83,171	6,828	---	Combined *
2	(24 days test)	DS-1	12.18	67,444	5,537		Combined *
3		DS-1	12.30	83,171	6,762		Combined *

Note: Samples were received in unsealed condition.

* Combined = Mortar and Aggregate Failure.

Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering, BUET, Dhaka-1000, Bangladesh

08/04/2024

Dr. Md. Zakaria Ahmed
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.

BUETCE 04 22192

Pile Cap Casting on 11-03-2024.