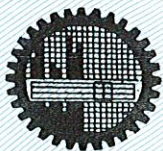


BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: 55666000-2 Ext. 7226

<http://brtctest.ce.buet.ac.bd>, <https://verify.ce.buet.ac.bd>

CONCRETE LABORATORY



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 (sq. in)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Type of Fracture* (Mode of Failure)
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/cm ²)	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 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

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with the QR Code or ID

Countersigned by:

Test Performed by:

Prof. Dr. Bashir Ahmed

Test-In-Charge

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Dr. Mahbuba Begum

Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

02/04/2026



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 06 25497