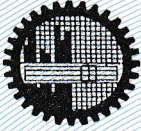


BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING
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CONCRETE LABORATORY

BRTC No. : **110212874/19-20/CE; Dt. 13/7/2020** Sheet 1 of 2
 Sent by : S M Hasanuzzaman Azad, Major, GE Army Sylhet
 Ref. No. : CEA/345 of 2019-2020/02/E-3; Dt. 11/6/2020
 Project : Project of GE (Army) Sylhet
 Sample : **Cement** [Brand :ELEPHANT; ID: --] Type: CEM I 52.5 N
 Date of Casting : 18/7/2020 Our ID : SA-118 Test Method & Specification : ASTM

Test Results of Portland Cement (Type-I)

Compressive Strength, psi & (Mpa): ASTM 109-11b	Age	3 days	7 days	28 days
	Date	21-Jul-20	25-Jul-20	15-Aug-20
	In figure	3680 psi (25.4 Mpa)	5010 psi (34.5 Mpa)	6060 psi (41.8 Mpa)
	In words	Three thousand six hundred eighty psi	Five thousand ten psi	Six thousand sixty psi
Standard/Optional* Requirements for PC Type I : ASTM C150-12		1740 psi (12 Mpa)	2760 psi (19 Mpa)	4060 psi (28 Mpa)
Mixing water temperature		23 °C	Curing water temperature	20.5 - 25°C

Water for Normal Consistency: ASTM C187-11		Initial Setting Time (minutes): ASTM C191-08		Final Setting Time (minutes): ASTM C191-08	
Standard Requirements: ASTM C150-12	Test Result	Standard Requirements: ASTM C150-12	Test Result	Standard Requirements: ASTM C150-12	Test Result
****	23.5%	Not less than 45 minutes	125	Not more than 375 minutes	240

Fineness (Specific Surface), m ² /kg : ASTM C204-11 (Air Permeability Method)		Density/ Specific Gravity (gm/cc): ASTM C188-09		Weight of Cement Bag (kg)	
Standard Requirements: ASTM C150-12	Test result	Standard Requirements	Test Result	Standard Requirements	Test Result
Minimum 280 m ² /kg	334	****	****	****	****

Note: Sample was received in not properly sealed condition.

Countersigned by :

Dr. Md. Abdul Jalil
Professor, Dept. of Civil Engg., BUET

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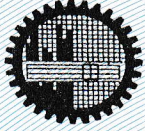
45JgB5nXP

Test performed by :

Snigdha Afsana
Assistant Professor, Dept. of Civil Engg., BUET



Important Notes: Samples as supplied to us have character of the samples required to be tested. If by a competent authority. In order to avoid fraudulent fabrication of test results, it is also recommended that all the test reports are collected by an authorized person, and not by the Contractor/Supplier.



CONCRETE LABORATORY

BRTC No. : **110212874/19-20/CE; Dt. 13/7/2020** Sheet 2 of 2
 Sent by : S M Hasanuzzaman Azad, Major, GE Army Sylhet
 Ref. No. : CEA/345 of 2019-2020/02/E-3; Dt. 11/6/2020
 Project : Project of GE (Army) Sylhet
 Sample : **Cement** [Brand :ELEPHANT; ID: -] Type: CEM II/B-M (S-V-L) 42.5N
 Date of Casting : 18/7/2020 Our ID : SA-119 Test Method & Specification : ASTM

Test Results of Blended Hydraulic (Portland Composite) Cement

Compressive Strength, psi & (Mpa): ASTM 109-11b	Age	3 days	7 days	28 days
	Date	21-Jul-20	25-Jul-20	15-Aug-20
	In figure	2250 psi (15.5 Mpa)	3140 psi (21.6 Mpa)	4490 psi (31 Mpa)
In words	Two thousand two hundred fifty psi	Three thousand one hundred forty psi	Four thousand four hundred ninety psi	
Maximum of Standard Requirements for All Types of IP/IS/IL/IT : ASTM C595-12		1890 psi (13 Mpa)	2900 psi (20 Mpa)	3620 psi (25 Mpa)
Mixing water temperature		23 °C	Curing water temperature	20.5 - 25°C

Water for Normal Consistency: ASTM C187-11		Initial Setting Time (minutes): ASTM C191-08		Final Setting Time (minutes): ASTM C191-08	
Standard Requirements: ASTM C595-12	Test Result	Standard Requirements: ASTM C595-12	Test Result	Standard Requirements: ASTM C595-12	Test Result
****	23%	Not less than 45 minutes	165	Not more than 420 minutes	400

Fineness (Specific Surface), m ² /kg : ASTM C204-11 (Air Permeability Method)		Density/ Specific Gravity (gm/cc): ASTM C188-09		Weight of Cement Bag (kg)	
Standard Requirements: ASTM C595-12	Test result	Standard Requirements	Test Result	Standard Requirements	Test Result
****	356	****	****	****	****

Note: Sample was received in not properly sealed condition.

Countersigned by :

Dr. Md. Abdul Jalil
 Professor, Dept. of Civil Engg., BUET



4bhmd2X7e

Test performed by :

Snigdha Afsana
 Assistant Professor, Dept. of Civil Engg., BUET



Important Notes: Samples as supplied to us character of the samples required to be tested by a competent authority. In order to avoid fraudulent fabrication of test results, it is also recommended that all the test reports are collected by an authorized person, and not by the Contractor/Supplier.

laboratory. BRTC does not have any responsibility as to the representative samples are sent in a secured and sealed cover/packet/container duly signed