BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: 55167100 Ext. 7226 http://brtc.ce.buet.ac.bd/#/home



CONCRETE LABORATORY

BRTC No.

: 1102-50899/21-22/CE; Dt. 5/1/2022

Sheet 1 of 1

Sent by

: Abu Ahmed Zahid, DGM, Quality Assurance and Lab, M.I. Cement Factory

West Mukterpur Munshigani

Ref. No.

: Letter; Dt. 5/1/2022

Project

Sample : Cement

[Brand: CROWN; ID: PC Week-01, January 22] Type: CEM I 52.5 N

Date of Casting

: 10/1/2022

Our ID: TA-41

Manufacturing Date:

--/Jan/2022

Test Method & Specification:

ASTM

Test Results of Portland Cement (Type-I)

Age	3 days	7 days	00 1	
	Age 3 days 7 days		28 days	
Date	13-Jan-22 17-Jan-22		7-Feb-22	
la Carrie	3280 psi	4760 psi	6400 psi (44.1 Mpa)	
in figure	(22.6 Mpa)	(32.8 Mpa)		
In words	In words Three thousand two hundred eighty psi hundred sixty psi		Six thousand four hundred psi	
Standard/Optional* Requirements for PC Type		2760 psi (19 Mpa)	4060 psi (28 Mpa)	
Mixing water temperature		Curing water temperature	20.5 - 25°C	
1	In figure In words rements for PC Type 50-19a	In figure 1	In figure 3280 psi 4760 psi (22.6 Mpa) (32.8 Mpa) In words Three thousand two hundred eighty psi Four thousand seven hundred sixty psi rements for PC Type 1740 psi 2760 psi 50-19a (12 Mpa) (19 Mpa)	

Water for Normal Consistency: ASTM C187-11		Initial Setting Time (minutes): ASTM C191-08		Final Setting Time (minutes): ASTM C191-08	
Standard Requirements: ASTM C150-19a	Test Result	Standard Requirements: ASTM C150-19a	Test Result	Standard Requirements: ASTM C150-19a	Test Result
****	26%	Not less than 45 minutes	162	Not more than 375 minutes	292

Fineness (Specific Surface), m ² /kg :		Soundness (Mortar Bar Expansion, %): ASTM 1038-11		***************************************		Weight of Cement Bag (kg)	
Standard Requirements: ASTM C150-19a	Test Result	Standard Requirements	Test Result	Standard Requirements	Test Result	Standard Requirements	Test Result
****	****	****	****	****	****	****	****

Sample was received in unsealed condition.

Countersigned by

Dr. A. B. M. Badruzzaman

Professor, Dept. of Civil Engg., BUET

Mn3C877rD

Test performed by:

Dr. Tanvir Ahmed

Professor, Dept. of Civil Engg., BUET

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 secured and sealed cover/packet/container duly signed 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.