BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING

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CONCRETE LABORATORY

BRTC No.

1102-30546/20-21/CE; Dt. 28/2/2021

Sent by

Muhammad Sakib Mahmud Ansary, Executive Engineer E/M,

GE (Biman), Tejgoan

Ref. No.

: ৩০০২/ইইনসি/০৪/ই-৩; Dt. 20/10/2020

Project

Test of cement manufactured by Sena Kalyan Sangstha for construction of GE (Air)

Tejgaon

Sample

Cement

[Brand: ELEPHANT; ID: --] Type: CEM I 52.5 N

Date of Casting

15/3/2021

Our ID: M-123

Manufacturing Date:

Not mentioned

Test Method & Specification:

ASTM

Test Results of Portland Cement (Type-I)

	t itesuits of i offiai	in cement (1 Abe-1)		
Age	3 days	7 days	28 days	
Compressive Date		22-Mar-21	12-Apr-21	
In figure	2210 psi 3280 psi		5080 psi	
psi & (Mpa); If ligure ASTM 109-11b	(15.2 Mpa)	(22.6 Mpa)	(35 Mpa)	
In words	Two thousand two hundred ten psi	Three thousand two hundred eighty psi	Five thousand eighty psi	
Requirements for M C150-19a	1740 psi (12 Mpa)	2760 psi (19 Mpa)	4060 psi (28 Mpa)	
Mixing water temperature		Curing water temperature	20.5 - 25°C	
	Age Date In figure In words Requirements for M C150-19a	Age 3 days Date 18-Mar-21 2210 psi (15.2 Mpa) In words Two thousand two hundred ten psi equirements for 1740 psi M C150-19a (12 Mpa)	Date	

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	
***	22.5%	Not less than 45 minutes	169	Not more than 375 minutes	402	

Fineness (Specific Surface), m²/kg : ASTM C204-11 (Air Permeability Method)		Density/ Specific Gravity (gm/cc): ASTM C188-09		Weight of Cement Bag (kg)	
Standard Requirements: ASTM C150- 19a	Test result	Standard Requirements	Test Result	Standard Requirements	Test Result
Minimum 260 m^2/kg	387	***	***	****	

Note: Sample was received in sealed condition.

Countersigned by:

Dr. A. B. M. Badruzzaman

Professor, Dept. of Civil Engg., BUET

TCSCdJb74

Test performed

12-0

2-04-2021

Dr. Sheikh Mokhlesur Rahman

Assistant Professor, Dept. of Civil Engg., BUET

Important Notes: Samples as supplied to us have poratory. 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.