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

Date of Casting

Cement 15/3/2021 [Brand: ELEPHANT; ID: --] Type: CEM II/B-M (S-V-L) 42.5N Our ID: M-122

Manufacturing Date:

Not mentioned

Test Method & Specification:

ASTM

Test Results of Blended Hydraulic (Portland Composite) Cement

			recitions composite, centerit			
Compressive Strength, psi & (Mpa); ASTM 109-11b	Age	3 days	7 days	28 days		
	Date	18-Mar-21	22-Mar-21	12-Apr-21		
	In figure	2040 psi 2950 psi		4640 psi		
	iii ligale	(14.1 Mpa)	(20.3 Mpa)	(32 Mpa)		
MOTIVITUS-110	In words	In words Two thousand forty psi Two thousand nine hundred fifty psi		Four thousand six hundred forty psi		
Maximum of Standard Requirements for All Types of IP/IS/IL/IT: ASTM		1890 psi (13 Mpa)	2900 psi (20 Mpa)	3620 psi (25 Mpa)		
Mixing water temperature		22.5 °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 C595-19	Test Result	Standard Requirements: ASTM C595-19	Test Result	Standard Requirements: ASTM C595-19	Test Result	
****	24%	Not less than 45 minutes	179	Not more than 420 minutes	459	

Fineness (Specific Surface ASTM C204-11 (Air Permea	Density/ Specific Gravity (gm/cc): ASTM C188-09		Weight of Cement Bag (kg)		
Standard Requirements: ASTM C595- 19	Test result	Standard Requirements	Test Result	Standard Requirements	Test Result
****	451	****	****	****	****

Note: Sample was received in sealed condition.

Countersigned by:

Dr. A. B. M. Badruzzaman

Professor, Dept. of Civil Engg., BUET

NWbRetthN

Test performed

Dr. Sheikh Mokhlesur Rahman

Assistant Professor, Dept. of Civil Engg., BUET

Important Notes: Samples as supplied to us ha aboratory. 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.