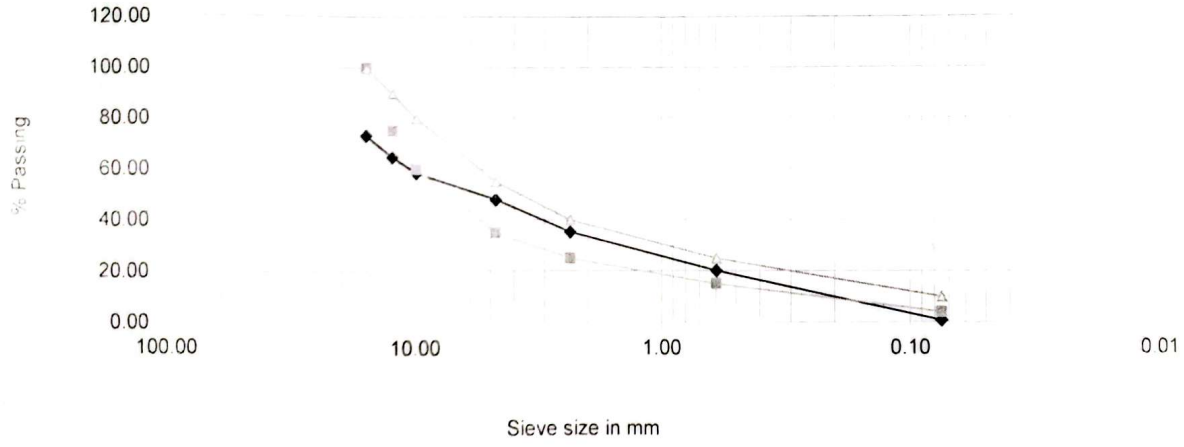
LOCAL GOVERNMENT ENGINEERING DEPARTMENT
LABORATORY AT LGED, JASHORE
Aggregate Grading for 25mm Bituminous Dense Carpeting

Client:
Scheme:
Sample no:
Quantity Collected Fron Field:25kg
Laboratory Register No :93/7
Type of Specimen: Stone Chips (Dinajpur)

Memo/Ref.no:
Location:
Sampled by & date- dt-
Quantity Represented: N/A
Date of test: 18.02.2025

Sieve size (mm)	% of Passing				Actual Grading	Specified Grading	
	Stone Chip (16mm)	Stone Chips (12.5mm)	Stone Chips (6mm)	Stone Dust		Lower Limit	Upper Limit
16.00 mm	46.72	100.00	100.00	100.00	73.36	100	100
12.50 mm	29.48	100.00	100.00	100.00	64.74	75	90
10.00 mm	17.32	100.00	100.00	99.60	58.46	60	80
4.75 mm	2.95	100.00	100.00	93.09	48.02	35	55
2.36 mm	1.26	100.00	100.00	69.22	35.24	25	40
0.600 mm	0.78	100.00	100.00	39.60	20.19	15	25
0.075 mm	0.12	100.00	100.00	1.51	0.82	4	10
Mixing % 100 →	50	0	0	50			

Sieve Analysis Test



Tested by: Aminur Rahman (L.T.)

18.02.25
Laboratory Technician
LGED, Jashore

18/02/25
Assistant Engineer
LGED, Jashore

18.02.25
Senior Assistant Engineer
LGED, Jashore

LOCAL GOVERNMENT ENGINEERING DEPARTMENT
LABORATORY AT LGED, JASHORE

RESISTANCE TO ABRASION OF COARSE AGGREGATE

BY THE USE OF LOS ANGELES ABRASION (LAA) TEST (ASTM C-131)

Client:
Scheme:
Sample no:
Quantity Collected From 10.0kg
Lab Register : 93/7

Memo/Ref.no:
Location:
Sampled by & date- dt-
Quantity Represented: N/A
Date of test: 18.02.2025

Type of Specimen: Stone Chips (Dinajpur)

Sieve		Grading	Weight(gm) of Material	Weight(gm) Retained on #12(1.70mm) Sieve	Other Information	Abrasion Value, %
Passing mm	Retained mm					$\frac{W1-W2}{W1} \times 100$
37.5	25	A				27.2 ≅ 27
25	19					
19	12.5	B	2500			
12.5	9.5		2500		Grading = B	
9.5	6.3	C			No. of Sphere = 11	
6.3	4.75(# 4)				Wt. of Spheres =4560gm	
4.75	2.36(# 8)	D			Revolution = 500Nos	
		TOTAL>>	W1 = 5000	W_2= 3640.00		

NOTE: Total weight of test specimen should be 5000 ± 10 gm

NOTE: For A-grading, use 12 Spheres of total weight 5000 ± 25gm
For B-grading, use 11 Spheres of total weight 4584 ± 25gm
For C-grading, use 8 Spheres of total weight 3330 ± 20gm
For D-grading, use 6 Spheres of total weight 2500 ± 15gm

Specified Los Angeles Abrasion (LAA) According to LGED ≤ 30%
Tested by: Md. Aminur Rahman (L..T)

Comments : Supplied Materials Tested

18.02.25
Laboratory Technician
LGED, Jashore

18/02/25
Assistant Engineer
LGED, Jashore

18.02.25
Senior Assistant Engineer
LGED, Jashore

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
নির্বাহী প্রকৌশলী (সওজ) এর কার্যালয়
উপকরণ পরীক্ষা ও রক্ষণাবেক্ষণ বিভাগ
বাংলাদেশ সড়ক গবেষণাগার, মিরপুর, ঢাকা
eemtm@rhd.gov.bd

স্মারক নং-৩৫.০১.০০০০.৩৭৮.২২০.২২-৮৩ তারিখঃ ০২/০২/২০২৫খ্রিঃ

বিষয়ঃ মধ্যপাড়া খনির বোল্ডার ও ক্রাশ পাথরের টেস্ট সম্পাদনের লক্ষে পাথরের নমুনা ও টেস্ট ফি বাবদ অর্থ জমাদানের বিপরীতে টেস্ট রিপোর্ট দাখিল সংক্রান্ত কাজের ব্যবহৃত মালামাল পরীক্ষার ফলাফল প্রেরণ প্রসঙ্গে।

সূত্রঃ তার দপ্তরের স্মারক নং-২৮.১৭.০০০০.৬৩১.২৫.০০২.২৩.১৬, তারিখঃ ২৮.০১.২০২৫ খ্রিস্টাব্দ।

উপর্যুক্ত বিষয় ও সূত্র স্মরকের প্রেক্ষিতে তার দপ্তর নমুনা পরীক্ষা করত: পরীক্ষালব্ধ ফলাফল পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য প্রেরণ করা হলো।

সংযুক্তঃ পরীক্ষার ফলাফল ০৪ (চার) পাতা, ০১ (এক) প্রস্থ।

(মোহাম্মদ ওয়াহিদুজ্জামান)
নির্বাহী প্রকৌশলী, সওজ
পরিচিতি নম্বর: ৬০১৯৭৬
ফোন: ০২-৫৮০৫৪৬২৭

ব্যবস্থাপনা পরিচালক,
মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড,
দিনাজপুর।

অনুলিপিঃ
১। পরিচালক (তঃপ্রঃ, সওজ) বাংলাদেশ সড়ক গবেষণাগার, মিরপুর, ঢাকা।
২। সিনিয়র সিস্টেম এনালিষ্ট (সওজ), ম্যানেজমেন্ট ইনফরমেশন সেল, সড়ক ভবন, তেজগাঁও, ঢাকা) (টেষ্ট রিপোর্টটি সওজ এর ওয়েবসাইটে প্রকাশের জন্য অনুরোধ করা হলো)।

Government of the People's Republic of Bangladesh
Bangladesh Road Research Laboratory,RHD
Paikpara, Mirpur, Dhaka, Bangladesh

UNIT WEIGHT OF COARSE AGGREGATE (Oven-Dry Basis)
DATA & REPORT SHEET

Client	ব্যবস্থাপনা পরিচালক, মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		
Memo No	28.17.0000.631.25.002.23.16	Date	28/01/2025
Project / Work	মধ্যপাড়া খনির বোল্ডার ও ক্রাশ পাথরের টেস্ট সম্পাদনের লক্ষে পাথরের নমুনা ও টেস্ট ফি বাবদ অর্থ জমাদানের বিপরীতে টেস্ট রিপোর্ট দাখিল সংক্রান্ত।		
Date of receive at lab	29/01/2025	Date of Test	02/02/2025
Sample description	**Boulder (10-50 cm)**		
Quantity supplied	5 Nos	Lab No.	47
Name of Agency	মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		

Mould Calibration

Weight of water to fill the mould: (W3) kg	18.938
Water Temp 0C	25 0C
Density of water (D) Kg/m3	998.6

DATA ANALYSIS

Test No.	Wt.of Agg+Mould W1Kg	Wt. of Water (Covered by Boulder area) W2 kg	Wt. of Agg W3 (W3+W1 – W2) kg	Unit Wt. of Agg= (W3×D)/W kg/m3	Specification Limit
1	9.572	25.104	3.406	2806.40	.....
2	10.642	25.75	3.83	2774.70	
3	6.594	23.084	2.448	2689.86	
4	4.66	21.848	1.75	2659.13	
				2732.52	

Note:- Test was performed on the basis of supplied sample

Tested by: Counter Signed by

02.02.25

(Shamiha Nazmin)
Asst. Research Officer
(RHD)

02.02.25

(Jahangir Alam)
Sub-Divisional Engineer(A.C)
(RHD)

(Mohammad Wahiduzzaman)
Executive Engineer
(RHD)

Material Testing & Maintenance Division
Road Research Laboratory, Mirpur, Dhaka

Government of the People's Republic of Bangladesh
Bangladesh Road Research Laboratory,RHD
Paikpara, Mirpur, Dhaka, Bangladesh

ABRASION TEST OF COARSE AGGREGATE BY LOS ANGELES METHOD
DATA & REPORT SHEET

Client	ব্যবস্থাপনা পরিচালক, মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		
Memo No	28.17.0000.631.25.002.23.16	Date	28/01/2025
Project / Work	মধ্যপাড়া খনির বোল্ডার ও ক্রাশ পাথরের টেস্ট সম্পাদনের লক্ষে পাথরের নমুনা ও টেস্ট ফি বাবদ অর্থ জমাদানের বিপরীতে টেস্ট রিপোর্ট দাখিল সংক্রান্ত।		
Date of receive at lab	29/01/2025	Date of Test	02/02/2025
Sample description	**Boulder - Crushed Stone- (5-20 mm)**		
Quantity supplied	One Bag. (30 kg)	Lab No.	47
Name of Agency	মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		

Data Analysis

Test No:	Sieve Sive		Weight of Material Taken	Weight Retained on # 12 (1.70 mm) sieve W2 gm	Other Information	Abrasion value (w1-w2)/w1 × 100 %	Specification Limit
	Sieve Sive	Retained mm					
1	20	12.5	2500	3548	Garding : B No. of charge :11 Wt. of Charges, gm :4586	**29.04%**	.....
	12.5	10	2500				
Total, W1 gm			5000				

Note:- Test was performed on the basis of supplied sample

Tested by: **Counter Signed by**

02.02.25
(Shamiha Nazmin)
Asst. Research Officer
(RHD)

02.02.25
(Jahangir Alam)
Sub-Divisional Engineer(A.C)
(RHD)

(Mohammad Wahiduzzaman)
Executive Engineer
(RHD)

Material Testing & Maintenance Division
Road Research Laboratory, Mirpur, Dhaka

Government of the People's Republic of Bangladesh
Bangladesh Road Research Laboratory,RHD
Paikpara, Mirpur, Dhaka, Bangladesh

ABRASION TEST OF COARSE AGGREGATE BY LOS ANGELES METHOD
DATA & REPORT SHEET

Client	ব্যবস্থাপনা পরিচালক, মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		
Memo No	28.17.0000.631.25.002.23.16	Date	28/01/2025
Project / Work	মধ্যপাড়া খনির বোল্ডার ও ক্রাশ পাথরের টেস্ট সম্পাদনের লক্ষে পাথরের নমুনা ও টেস্ট ফি বাবদ অর্থ জমাদানের বিপরীতে টেস্ট রিপোর্ট দাখিল সংক্রান্ত।		
Date of receive at lab	29/01/2025	Date of Test	02/02/2025
Sample description	**Boulder - Crushed Stone- (16-20 mm)**		
Quantity supplied	One Bag. (30 kg)	Lab No.	47
Name of Agency	মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		

Data Analysis

Test No:	Sieve Sive		Weight of Material Taken	Weight Retained on # 12 (1.70 mm) sieve W2 gm	Other Information	Abrasion value (w1-w2)/w1 × 100 %	Specification Limit
	Sieve Sive	Retained mm					
1	20	12.5	2500	3544	Garding : B No. of charge :11 Wt. of Charges, gm :4586	**29.12%**	.....
	12.5	10	2500				
Total, W1 gm			5000				

Note:- Test was performed on the basis of supplied sample

Tested by: **Counter Signed by**

02.02.25
(Shamiha Nazmin)
Asst. Research Officer
(RHD)

02.02.25
(Jahangir Alam)
Sub-Divisional Engineer(A.C)
(RHD)

(Mohammad Wahiduzzaman)
Executive Engineer
(RHD)

Material Testing & Maintenance Division
Road Research Laboratory, Mirpur, Dhaka

Government of the People's Republic of Bangladesh
Bangladesh Road Research Laboratory,RHD
Paikpara, Mirpur, Dhaka, Bangladesh

WATER ABSORPTION TEST OF BRICKS
DATA & REPORT SHEET

Client	ব্যবস্থাপনা পরিচালক, মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		
Memo No	28.17.0000.631.25.002.23.16	Date	28/01/2025
Project / Work	মধ্যপাড়া খনির বোল্ডার ও ক্রাশ পাথরের টেস্ট সম্পাদনের লক্ষে পাথরের নমুনা ও টেস্ট ফি বাবদ অর্থ জমাদানের বিপরীতে টেস্ট রিপোর্ট দাখিল সংক্রান্ত।		
Date of receive at lab	29/01/2025	Date of Test	05/02/2025
Sample description	**Boulder (10-50cm)**		
Quantity supplied	5 Nos	Lab No.	47
Name of Agency	মধ্যপাড়া গ্রানাইট মাইনিং কোম্পানি লিমিটেড, দিনাজপুর।		

Data Analysis

Test No:	Oven-Dry Wt. W1 gm	S.S.D. Wt. W2 gm	Wt. of Water W3 = (W2-W1) gm	Water Absorption = (W3 \ W1) × 100 %	Specification Limit
1	9574	9588	14	0.15	.....
2	10644	10656	12	0.11	
3	6595	6604	9	0.14	
4	4660	4664	4	0.09	
			Average %	**0.12**	

Note:- Test was performed on the basis of supplied sample

Tested by: Counter Signed by

05.02.25

(Shamiha Nazmin)
Asst. Research Officer
(RHD)

05.02.25

(Jahangir Alam)
Sub-Divisional Engineer(A.C)
(RHD)

(Mohammad Wahiduzzaman)
Executive Engineer
(RHD)

Material Testing & Maintenance Division
Road Research Laboratory, Mirpur, Dhaka

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: 55167228-57 Ext. 7226
http://brtc.ce.buet.ac.bd/#/home

TRANSPORTATION ENGINEERING LABORATORY

BRTC Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /CE /22-23 ; Dt: 17/5/2023**

Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur

Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023

Project : Different Tests of MGMCL Stone and Imported Stones.

Sample : **Crushed Stone (Stone Chips)** **MGMCL**

Test : **Specific Gravity and Water Absorption (ASTM C127)**

Date of Test : 12/6/2023

TEST REPORT

Sample Designation	Weight of oven dry sample (gm)	Weight of SSD sample (gm)	Weight of saturated sample in water (gm)	Bulk Specific Gravity (OD) (Relative Density)	Absorption Capacity (%)
Crushed Stone (Stone Chips)	3102.7	3114.1	1999.9	**2.78**	**0.40**

Notes: Samples were not properly sealed.

19
bFXKdd43R

Department of Civil Engineering, BUET, Dhaka-1000, Bangladesh

Countersigned *by*:

Dr. Hasib Mohammed Ahsan
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

12/06/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

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TRANSPORTATION ENGINEERING LABORATORY

BRTC Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /CE /22-23 ; Dt: 17/5/2023**

Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur

Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023

Project : Different Tests of MGMCL Stone and Imported Stones.

Sample : **Crushed Stone (Stone Chips)** **MGMCL**

Test : **Ten Percent Fines Value [BS 812-111:1990]**

Date of Test : 12/6/2023

TEST REPORT

Type of Aggregate	Sample Size	Weight of sample (Surface Dry) (gm)	Applied Load (KN)	Weight of material passing 3.35 mm sieve (gm)	Ten Percent Fines Value
Crushed Stone (Stone Chips)	20 mm to 14 mm	2831	180	327	**160 KN**

Notes: Samples were not properly sealed.

20
5fR8R9b4g

Countersigned *by*:

Dr. Hasib Mohammed Ahsan
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

12/07/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING

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TRANSPORTATION ENGINEERING LABORATORY

BRTC Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /CE /22-23 ; Dt: 17/5/2023**
Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur
Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023

Project : Different Tests of MGMCL Stone and Imported Stones.

Sample : **Crushed Stone (Stone Chips)** **MGMCL**
Test : **Aggregate Impact Value [BS 812 (part 3) 1975]**
Date of Test : 12/6/2023

TEST REPORT

Type of Aggregate	Sample Size	Weight of sample (Surface Dry) (gm)	Weight of material passing 2.36 mm sieve (gm)	Aggregate Impact Value %
Crushed Stone (Stone Chips)	14 mm to 10 mm	348	99	**28**

Notes: Samples were not properly sealed.

21
3tjhS8b88

Countersigned *by*:

Dr. Hasib Mohammed Ahsan
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

12/6/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING
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TRANSPORTATION ENGINEERING LABORATORY

BRTC
Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /CE /22-23 ; Dt: 17/5/2023**

Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur

Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023

Project : Different Tests of MGMCL Stone and Imported Stones.

Sample : **Crushed Stone (Stone Chips)** **MGMCL**

Test : **Aggregate Crushing Value [BS 812 (part 3) 1975]**

Date of Test : 12/6/2023

TEST REPORT

Type of Aggregate	Sample Size	Weight of sample (Surface Dry)	Weight of material passing 3.35 mm sieve	Aggregate Crushing Value
		(gm)	(gm)	%
Crushed Stone (Stone Chips)	20 mm to 14 mm	2831	612	**22**

Notes: Samples were not properly sealed.

22
gKB4Egr54

Countersigned *by*:

Dr. Hasib Mohammed Ahsan
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering ★ BUET, Dhaka-1000, Bangladesh ★

12/07/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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.

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

DEPARTMENT OF CIVIL ENGINEERING
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TRANSPORTATION ENGINEERING LABORATORY

BRTC Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /CE /22-23 ; Dt: 17/5/2023**

Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur

Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023

Project : Different Tests of MGMCL Stone and Imported Stones.

Sample : **Crushed Stone (Stone Chips)** **MGMCL**

Test : **Unit Weight/Bulk Density & Voids in Aggregate [ASTM C 29]**

Date of Test : 12/6/2023

TEST REPORT

Unit weight/Bulk Density (kg/m3) =	1560 kg/ m3
Voids in Aggregate, compacted by Rodding(%) =	

Notes: Samples were not properly sealed.

23

5dPm5CXee

Countersigned *by*:

Dr. Hasib Mohammed Ahsan
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

12/06/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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 044954

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

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CONCRETE LABORATORY

BRTC
Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /22-23/CE; Dt: 17/5/2023**
Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur
-
Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023
Project : Different Tests of MGMCL Stone and Imported Stones.
Sample : **Concrete Cylinder** [Aggregate Type: Stone chips (MGMCL)]
Cement : AKIJ (OPC) w/c = 0.45 [Mix proportion(as quoted): 1:2:4]
[Admixture Added (as per letter): Not mentioned]
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 15/6/2023

TEST REPORT

SL No.	Date of Casting as per the letter	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	8/6/2023	MGMCL	12.67	41,843	3,303	**3410 psi**	Combined *
2	(7 days test)	MGMCL	12.67	44,572	3,518	(23.5 MPa)	Combined *
3		MGMCL	12.55	42,753	3,407	(240 kg/cm²)	Combined *

* Combined = Mortar and Aggregate Failure.

Note: Samples were received in unsealed condition.

39
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Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

12/06/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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 044938

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CONCRETE LABORATORY

BRTC
Bureau of Research, Testing & Consultation

BRTC No. : **1102-91414 /22-23/CE; Dt: 17/5/2023**
Sent by : Engineer Md Obaidullah , General Manager, (UGO&M), MGMCL, Maddhapara, Dinajpur
-
Ref. No. : 28.17.0000.311.48.001.23/687; Dt: 16/5/2023
Project : Different Tests of MGMCL Stone and Imported Stones.
Sample : **Concrete Cylinder** [Aggregate Type: Stone chips (MGMCL)]
Cement : AKIJ (OPC) w/c = 0.45 [Mix proportion(as quoted): 1:2:4]
[Admixture Added (as per letter): Not mentioned]
Test : **Compressive Strength Test of Concrete Cylinder [ASTM C39]**
Date of Test : 6/7/2023

TEST REPORT

SL No.	Date of Casting *as per the letter*	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	8/6/2023	MGMCL	12.67	54,580	4,308	**4490 psi**	Combined *
2	**(28 days test)**	MGMCL	12.67	56,400	4,451	(31 MPa)	Combined *
3		MGMCL	12.55	59,129	4,711	(316 kg/cm²)	Combined *

* Combined = Mortar and Aggregate Failure.

Note: Samples were received in unsealed condition.

40
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Countersigned *by*:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed *by*:

Department of Civil Engineering BUET, Dhaka-1000, Bangladesh

12/07/23

Dr. Md. Mizanur Rahman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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 044937