

DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819 557 964; PABX: 966 5650-80 Ext. 7226; www.buet.ac.bd/ce/



CONCRETE LABORATORY

BRTC No.

1100-83805 /14-15/CE; Dt: 13/4/2015

Sent by

Engr. Mohammad Abul Bashar, Managing Director, Maddhapara Granite Mining Company Limited.

Ref. No.

Rock-100.124.18/726; Dt: 18/5/2015

Project

Concrete Cylinder Casting & Testing for a Set of 6 Nos.

Mixture

Water/cement: 0.27; Cement: 544kg (Super Fresh-OPC); Water: 147kg; Coarse Sand: 641kg (FM=2.65);

Maddhapara Hard Rock (CA): 1133kg (5~10mm: 340kg; 10~20mm: 793kg); Superplasticizer (MEHS 247): 5.4kg.

Test

Compressive Strength [ASTM C39]

Date of Test:

30/6/2015

TEST REPORT

SI. No.	Date of Casting	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
Approx	2/6/2015	H.	12.42	137,692	11,086	10250 psi	Combined *
2	(28 days test)	j-g	12.42	116.185	9,355	(70.5 MPa)	Combined *
3		H1	12.42	128,184	10,321	(721 kg/cm^2)	Combined *

* Combined = Mortar and Aggregate failure.

Countersigned by:

Dr. Abu Siddique

Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Test Performed by:

Dr Hasib Mohammed Ahsai

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.



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Concrete Cylinder Casting & Testing for a Set of 6 Nos.

Mixture

: Water/cement: 0.27: Cement: 544kg (Super Fresh-OPC); Water: 147kg; Stone Dust: 641kg (FM=2.44);

Maddhapara Hard Rock (CA): 1133kg (5~10mm: 340kg; 10~20mm: 793kg); Superplasticizer (MEHS 247): 5.4kg.

Test

: Compressive Strength [ASTM C39]

Date of Test:

30/6/2015

TEST REPORT

SI. No.	Date of Casting	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode <i>of</i> Failure
			(sq. in)	(lb)	(psi)		
1	2/6/2015	H2	12.42	115,506	9.300	8970 psi	Combined *
2	(28 days test)	H2	12.42	109,393	8,808	(62 MPa)	Combined *
3		H2	12.42	109,167	8,790	(631 kg/cm^2)	Combined *

* Combined = Mortar and Aggregate failure.

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Test Performed by

Professor

Department of Civil Engineering

Dr Hasib Mohammed

BUET, Dhaka-1000, Bangladesh

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Test

: Compressive Strength [ASTM C39]

Date of Test: 9/6/2015

TEST REPORT

SI.	Date of Casting	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	2/6/2015	H1	12.42	102,827	8,279	8630 psi	Combined *
2	(7 days test)	H1	12.42	113,242	9,118	(59.5 MPa)	Combined *
3		H1	12.42	105,544	8,498	(607 kg/cm^2)	Combined *

* Combined = Mortar and Aggregate failure.

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Test

Compressive Strength [ASTM C39]

Date of Test: 9/6/2015

TEST REPORT

SI. No.	Date <i>of</i> Casting	Specimen Designation/ Frog Mark	Specimen Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
			(sq. in)	(lb)	(psi)		
1	2/6/2015	H1	12.42	117,543	9,464	9600 psi	Combined *
2	(7 days test)	H1	12.42	128,636	10,357	(66 MPa)	Combined *
3		H1	12.42	111,657	8,990	(675 kg/cm^2)	Combined *

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Countersigned by:

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Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Test Performed by:

Dr Hasib Mohammed Ahsan

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DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819 557964; PABX: 966 5650-80 Ext. 7226



TRANSPORTATION ENGINEERING LABORATORY

Sieve Analysis and Grain Size Distribution of Sand

BRTC No: 110083805/14-15/CE

Date: 13.04.2015

Reference: Rock-100.124.18/726

Date: 18.05.2015

Sample sent by: Engr. Mohammad Abul Bashar,

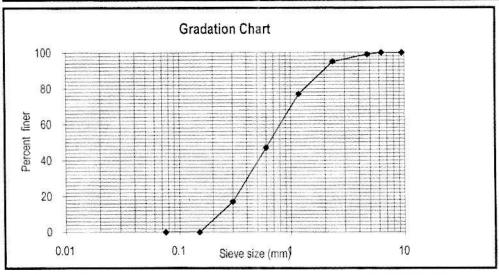
Managing Director, Maddhapara Granite Mining Company Limited.

Sample Type: Coarse Sand (used for preparing Concrete Cylinders)

Date of Test: 13.06.2015

TEST RESULTS

Sieve Size	Material Retained	Percent of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	% ==	10 mg/s
9.5	0.00	0	0	100	
6.3	0.00	0	0	100	
4.75	3.17	1 1	1	99	
2.36	19.67	4	5	95	
1.18	90.91	18	23	77	2.65
0.6	150.36	30	53	47	(two point six five)
0.3	148.93	30	83	17	
0.15	83.05	17	100	0	
0.075	2.67	1 1	100	0	
Pan	1.24	0.2			
Total	500.00				



Countersigned by

assague

Dr. Abu Siddique

Professor

Department of Civil Engineering

BUET, Dhaka-1000.

OF CIVIL SOURCE ROLL

Test performed by

Dr. Hasib Mohammed Ahsan

Professor

Department of Civil Engineering

BUET, Dhaka-1000.



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TRANSPORTATION ENGINEERING LABORATORY

Sieve Analysis and Grain Size Distribution of Sand

BRTC No: 110083805/14-15/CE

Date: 13.04.2015

Reference: Rock-100.124.18/726

Date: 18.05.2015

Sample sent by: Engr. Mohammad Abul Bashar,

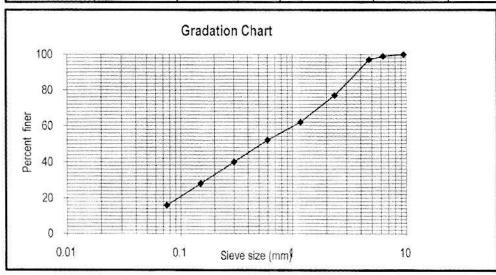
Managing Director, Maddhapara Granite Mining Company Limited.

Sample Type: Stone Dust (used for preparing Concrete Cylinders)

Date of Test: 13.06.2015

TEST RESULTS

Sleve Size	Material Retained	Percent of Material Retained	Cumulative % Retained	Percent Finer	Fineness Modulus
mm	gm	%	%	%	英國的
9.5	0.00	0	0	100	
6.3	3.60	1	1	99	1
4.75	9.87	2	3	97	1
2.36	99.37	20	23	77	1
1,18	74.60	15	38	62	2.44
0.6	51.95	10	48	52	(two point four four)
0.3	59.67	12	60	40	
0.15	62.30	12	72	28	1
0.075	60.89	12	84	16	1
Pan	77.75	16.0			1
Total	500.00				1



Countersigned by

assogue

Dr. Abu Siddique

Professor

Department of Civil Engineering

BUET, Dhaka-1000.

Test performed by

Dr. Hastb Mohammed Ahsan

Professor

Department of Civil Engineering

BUET, Dhaka-1000.