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தேசிய கட்டிட ஆராய்ச்சி நிறுவனம்  
NATIONAL BUILDING RESEARCH ORGANISATION



99/1 { ජාවත්ත පාර, කොළඹ 5.  
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Our Ref } ..... 20249 1383 ..... Your Ref } ..... Date } .....

1  
This report has 03 pages including annexures  
Final Report

**CEMENT TESTING**

REPORT NO. : CT/09/025A

DATE OF REPORT : 27.10.2009

CLIENT : RUHUNU LANKA CEMENT (PVT) LTD.,  
588A NEGOMBO ROAD  
MAHABAGE

PROJECT : Not intimated

REFERENCE OF REQUISITION : Letter received on 18<sup>th</sup> September 2009

*The test results reported herein  
relate to the specimens submitted  
to N.B.R.O. and do not certify the  
quality of a product in general.*



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**Final Report**

**CEMENT TESTING**  
**REPORT NO. : CT/09/025A**

SAMPLES RECEIVED ON : 18.09.2009

DESCRIPTION OF SAMPLE : (a) Nos. : 01 bag  
(b) Type : ORDINARY PORTLAND CEMENT  
(c) Supplier\* : **D.G. Khan Company, Pakistan**  
(\*As intimated by the client)

THE PRE-TESTING STAGE : (a) Condition of the bag : Un-opened/repacked  
(b) Quantity received :  
for testing : 50 kg  
(c) Sampled by : Client

TEST REQUESTED : (a) Setting time  
(b) Compressive strength of mortar cubes  
(i) 3 days  
(ii) 28 days  
(c) Soundness  
(d) Fineness

TEST CARRIED OUT IN ACCORDANCE WITH : Test methods given in SLS 107 : 2002  
Specification for Ordinary Portland Cement

TEST RESULTS : Result of Test b(ii) is as per the annexure. Other results have  
already given in the Interim Report No.CT/09/025 dated  
13.10.2009

CONCLUSIONS : The conformity of the sample tested to the requirements  
specified are given in page 3

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Final Report


20249 1383

Report No. : CT/09/025A

TEST RESULTS

Name of Test	Observed test Result	Specified value in SLS 107:2002	Compliance
(b). Compressive strength of mortar cubes (ii) 28 days	54.8, 48.6 *, 54.2 Avg. 54.5 N/mm <sup>2</sup>	Not less than 40 N/mm <sup>2</sup>	Passed

\* Discarded due to variation greater than 5% from the average and the average strength reported has been computed from the other two results

  
.....  
Technical Officer/Technical Engineer

  
.....  
Scientist

  
.....  
Head/Director/B.M.D.

NATIONAL BUILDING RESEARCH ORGANIZATION  
BUILDING MATERIALS DIVISION  
No. 99/1, Jawatta Road,  
Colombo 05.



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Date } .....

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This report has 03 pages including annexures  
**Interim Report**

**CEMENT TESTING**

REPORT NO. : CT/09/025

DATE OF REPORT : 13.10.2009

CLIENT : RUHUNU LANKA CEMENT (PVT) LTD.,  
588A NEGOMBO ROAD  
MAHABAGE

PROJECT : Not intimated

REFERENCE OF REQUISITION : Letter received on 18<sup>th</sup> September 2009

*The test results reported herein  
relate to the specimens submitted  
to N.B.R.O. and do not certify the  
quality of a product in general.*

NATIONAL BUILDING RESEARCH ORGANISATION  
BUILDING MATERIALS DIVISION  
No. 99/1, Jawatta Road,  
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2

Interim Report

**CEMENT TESTING**  
**REPORT NO. : CT/09/025**

SAMPLES RECEIVED ON : 18.09.2009

DESCRIPTION OF SAMPLE : (a) Nos. : 01 bag  
(b) Type : ORDINARY PORTLAND CEMENT  
(c) Supplier\* : **D.G. Khan Company, Pakistan**  
(\*As intimated by the client)

THE PRE-TESTING STAGE : (a) Condition of the bag : Un-opened/repacked  
(b) Quantity received for testing : 50 kg  
(c) Sampled by : Client

TEST REQUESTED : (a) Setting time  
(b) Compressive strength of mortar cubes  
(i) 3 days  
(ii) 28 days  
(c) Soundness  
(d) Fineness

TEST CARRIED OUT IN ACCORDANCE WITH : Test methods given in SLS 107 : 2002  
Specification for Ordinary Portland Cement

TEST RESULTS : Results of Test b(ii) will be reported in the Final Report.  
Other results are as per the annexure

CONCLUSIONS : The conformity of the sample tested to the requirements  
specified are given in page 3

20249 1383

Report No. : CT/09/025

## TEST RESULTS

Name of Test	Observed test Result	Specified value in SLS 107:2002	Compliance
(a). Setting times (i) Initial	127 minutes	Not less than 30 minutes	Passed
(ii) Final	03 hours & 14 minutes	Not more than 10 hours	Passed
(b). Compressive strength of mortar cubes (i) 3 days	37.29*, 34.32, 33.53 Avg. 34.0 N/mm <sup>2</sup>	Not less than 20 N/mm <sup>2</sup>	Passed
(c) Soundness (Autoclave method)	0.006%	Not more than 0.8%	Passed
(d) Fineness	312 m <sup>2</sup> /kg	Not less than 225 m <sup>2</sup> /kg	Passed

\* Discarded due to variation greater than 5% from the average and the average strength reported has been computed from the other two results

  
.....  
Technical Officer/Technical Engineer

  
.....  
Scientist

  
.....  
Head/ Director /B.M.D.



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Our Ref } .....  
WQ/2009/321

Your Ref } .....

Date } .....  
21/10/2009

TEST REPORT

Report Number : WQ/2009/321

Issued to : The Manager  
**Ruhunu Lanka Cement (Pvt)Ltd.,**  
588 A, Negambo Rd  
Mahabage.

Issued by :  
Environmental Division  
**National Building Research Organisation**  
99/1, Jawatte Road  
Colombo 05.

**TEST REPORT**

**Client's Reference** : Portland Cement imported from  
D G Khan Company Pakistan  
**Test Item** : Chemical composition of cement sample as per  
requisition letter dated 17/09/2009  
**Number of Sample** : 01  
**Samples Collected by** : Client  
**Date of Receipt to the Laboratory** : 17<sup>th</sup> September 2009  
**Analysis Performed** : From 17<sup>th</sup> September 2009 to 29<sup>th</sup> September 2009  
**Table (1)** : Sample Description

Client's sample reference	Sample Description	Lab Code
Cement sample (Ruhunu Lanka Cement (Pvt)Ltd)	Dry, powdered form in a Polyethylene bag	MS-2009-321

**Table (2)** : Parameters and Test methods

Parameter	Test Method
Chemical Composition of Cement	Sri Lanka Standard 107 : Part 2 : 2002 (Specification for Ordinary Portland Cement)



Table (3) : Test Results

Parameter	MS-2009-321
Insoluble Residue, w/w %	0.13
Loss on Ignition, w/w %	1.22
Silica (as SiO <sub>2</sub> ), w/w %	20.25
Aluminum Oxide (as Al <sub>2</sub> O <sub>3</sub> ), w/w %	3.59
Calcium Oxide (as CaO), w/w %	67.92
Magnesium Oxide (as MgO), w/w %	2.61
Iron Oxide (as Fe <sub>2</sub> O <sub>3</sub> ), w/w %	2.97
Sulfate (as SO <sub>3</sub> ), w/w %	1.21
Chloride (as Cl <sup>-</sup> ), w/w %	<0.01

The results are valid only for the samples submitted for analysis

Analysed.....  
S A M S Dissnayake  
Scientist

Checked.....  
I A V P Iddamalgoda  
Co-ordinator W/Q

Certified.....  
M D C Perera  
Head/Environmental Division

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