

Certificate N°: 130719026E



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Hochiminh City, Date: 17 July, 2013

CERTIFICATE OF QUALITY

REF. NO.: M13/04061

A shipment designated as:

SHIPPER:	CAMPHA CEMENT JOINT STOCK COMPANY
BUYER:	CMS CEMENT SDN BHD
	LOT 5895 JALAN SIMEN RAYA, PENDING INDUSTRIAL
	ESTATE P.O. BOX 2000, 93740 KUCHING, SARAWAK,
	MALAYSIA
COMMODITY DECLARED:	PORTLAND CEMENT CLINKER IN BULK
THE NAME OF MANUFACTURER:	CAMPHA CEMENT JOINT STOCK COMPANY
QUANTITY AS B/L:	7,000 M.TONS
PORT OF LOADING:	CAMPHA JETTY, VIETNAM
PORT OF DISCHARGE:	KUCHING PORT, MALAYSIA
VESSEL:	M.V. VANDON ACE
B/L NO.:	42/CP-SS-01
L/C NUMBER LCQ1603000205	DATED: 14TH JULY, 2013

In compliance with the instructions received from our principal, CAMPHA CEMENT JOINT STOCK COMPANY, we attended at Campha Jetty, Vietnam with the purpose of carrying out survey of sampling and analysis of above mentioned commodity. At time of our intervention, the cargo was loaded onto the vessel at Campha Jetty, Vietnam.

We hereby report as follows:

SAMPLING AND ANALYSIS: A composite sample of the samples taken every four (4) hours during loading and this composite sample has been split into five (5) samples of five (5) kgs each and one sample has been sent to the final buyer via an air courier service and two referee samples shall be kept in custody for a period of sixty (60) days from shipment date:

- 01 sub-sample with SGS seal No. P4534582 was sent to our laboratory for testing.
- 01 sub-sample with SGS seal No. P4534579 was handed over to Campha Cement JSC.
- 01 sub-sample with SGS seal No. P4534580 was sent to the vessel's representative.
- 02 sub-samples with SGS seal No. P4534583 & P4534584 were retained at SGS office and will be disposed after 03 months.



SGS Vietnam Ltd.

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The specification of the commodity was tested and found as report No. HPL0928 as follows:

Specification	Testing result
Moisture	0.10 PCT
FCAO	0.99 PCT
CHEMICAL COMPOSITION:	
SiO ₂	21.46 PCT
Al ₂ O ₃	5.15 PCT
Fe ₂ O ₃	3.44 PCT
CaO	66.07 PCT
MgO	1.20 PCT
SO ₃	0.25 PCT
Na ₂ O TD (Na ₂ O+0.658 K ₂ O)	0.60 PCT
Loss on Ignition (LOI)	0.17 PCT
Insoluble residue content (IR)	0.26 PCT
C ₃ S	62.33 PCT
C ₂ S	14.50 PCT
C ₄ AF	10.47 PCT
LSF	96.59 PCT
C ₃ A	7.83 PCT

Remark: The formula was applied to calculate for C₃A, C₃S, C₂S, C₄AF and LSF as follows:
$$C_3S = 4.071 \times (\%CaO_{total} - CaO_{free\ lime}) - 7.600 \times \%SiO_2 - 6.718 \times \%Al_2O_3 - 1.430 \times \%Fe_2O_3$$
$$C_2S = (2.867 \times \%SiO_2) - (0.7544 \times \%C_3S)$$
$$C_3A = (2.650 \times \%Al_2O_3) - (1.692 \times \%Fe_2O_3)$$
$$C_4AF = 3.043 \times \%Fe_2O_3$$
$$LSF (\%) = (100 \times \%CaO) / (2.8 \times \%SiO_2 + 1.18 \times \%Al_2O_3 + 0.65 \times \%Fe_2O_3)$$



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Survey was carried out at Campha Jetty, Vietnam and our Lab from 13 to 17 July, 2013.

This Draft Survey report reflects the findings determined at time and place of our intervention only.

SGS VIETNAM LTD
Tran Thi Thu Trang



SGS

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