Certificate Nº: 1301280276



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Hochiminh city, Date: 24 January, 2013

CERTIFICATE OF QUALITY, QUANTITY

REF. NO.: M13/0224.3

AND CHEMICAL ANALYSIS

A shipment designated as:

BY	PEAKWARD VIETNAM COMPANY LIMITED
SHIPPPER:	PEAKWARD VIETNAM COMPANY LIMITED
	GROUP 55, MAI DICH WARD, CAU GIAY DIST., HANOI, VIETNAM
COMMODITY DECLARED:	ORDINARY PORTLAND CLINKER IN BULK SUITABLE FOR PRODUCING
100000000 10000000 100000000 100000000 1000000	ORDINARY GREY PORTLAND CEMENT AS PER ASTM C150 (TYPE 1)
WEIGHT AS B/L:	4,328 M.TONS
VESSEL:	M/V GOLDEN TULIP
PORT OF LOADING:	CAM PHA SEAPORT IN VIETNAM
PORT OF DISCHARGE:	CHITTAGONG SEAPORT, BANGLADESH
B/L NO.:	GT 3 DATED: 24TH JANUARY 2013
L/C NUMBER 14781302002	1 Association

In compliance with the instructions received from our principal, PEAKWARD VIETNAM COMPANY LIMITED, we attended at Cam Pha Seaport in Vietnam with the purpose of carrying out survey of quantity and quality of the above mentioned commodity. At time of our intervention, the cargo in bulk was being loaded onto the vessel at Cam Pha Seaport in Vietnam. We hereby report our findings as follows:

WEIGHT BY VESSEL'S DRAFT SURVEY: Before and upon completion of loading, jointly with the Master and/or Chief Officer appointed by him we read the vessel's draft marks and sounded the tanks containing the variable liquids; then used calibration tables supplied by the ship's staff to calculate the quantity loaded on board the vessel as follows:

47,888 M.TONS

(Forty seven thousand eight hundred and eighty eight metric tons only)

This certificate was issued to cover a lot consisting of <u>4,328 M.TONS</u> declared by the shipper under B/L No. GT 3 dated 24TH JANUARY 2013 – being a part of total quantity of <u>47,888 M.TONS</u> loaded on the vessel "M/V GOLDEN TULIP"



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SAMPLING AND ANALYSIS: Increment samples were drawn randomly during loading onto the vessel from barges. The full composite sample was then prepared and divided into 04 sub samples of 10 kg each and distributed as follows:

- 01 sub-sample with SGS seal No. P3879547 was sent to our Lab for testing.

- 01 sub-sample with SGS seal No. P3879549 was sent to the shipper.

- 01 sub-sample with SGS seal No. P3879550 was handed over to the vessel's representative.

- 01 sub-sample with SGS seal No. P3879548 was retained at SGS office and will be disposed after 03 months.

The following analysis result was found:

Items	0 6050905050505050505050505050 2 5050505050505050505050505050 2 50505050505050505050505050505050505050	Testing method		
SiO ₂	20.93	(Two zero decimal nine three)		
AI2O ₃	5.27	(Five decimal two seven)	TCVN 141	
Fe ₂ O ₃	3.26	(Three decimal two six)		
CaO	65.67	(Six five decimal six seven)		
MgO	1.79	(One decimal seven nine)		
SO ₃	0.26	(Zero decimal two six)		
Free CaO (CaO _{td})	1.03	(One decimal zero three)		
Loss on Ignition (LOI)	0.18	(Zero decimal one eight)		
Insoluble Residue	0.27	(Zero decimal two seven)		
C ₃ S	67.47	(Six seven decimal four seven)	By Calculated	
C ₂ S	9.11	(Nine decimal one one)		
C ₃ A	8.45	(Eight decimal four five)		
C ₄ AF	9.92	(Nine decimal nine two)		
LSF	98.10	(Nine eight decimal one zero)		
Gain size 0-1mm	12.94	(One two decimal nine four)	By sieve	
Gain size 5-25mm	65.32	(Six five decimal three two)	by sieve	
Moisture	0.24	(Zero decimal two four)	TCVN 7024	

The formula was applied to calculate for C₃A, C₃S, C₂S, C₄AF and LSF as follows: C₃S = 4.071 x % - 7.600 x % SiO₂ - 6.718 x %Al₂O₃ - 1.430 x %Fe₂O₃ - 2.852 x %SO₃ C₂S = (2.867 x %SiO₂) - (0.7544 x %C₃S) C₃A = (2.650 x %Al₂O₃) - (1.692 x %Fe₂O₃) C₄AF = 3.043 x %Fe₂O₃ LSF (%) = (100 x %CaO)/ (2.8 x %SiO₂ + 1.18 x %Al₂O₃ + 0.65 x %Fe₂O₃)



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