



PNG TAIHEIYO CEMENT LIMITED
 QUALITY CONTROL SECTION
 PHONE (675)472 7499 FAX (675)472 4218/1300

MONTHLY TEST RESULTS FOR September-2020

FOR Lae Clinker Grinding & Cement Packing Plant

The following Results of Test conducted in accordance with ASTM C150-12 for Type 1,
 Ordinary Portland Cement (OPC)-Paradise Cement.

DESCRIPTION OF TEST

<u>CHEMICAL COMPOSITION</u>		<u>ASTM C150</u>		<u>UNIT</u>	<u>RESULTS</u>
Loss-On-Ignition	(LOI)	Max.	3.0	%	2.22
Silicon Dioxide	(SiO ₂)			%	21.14
Aluminum Oxide	(Al ₂ O ₃)			%	5.59
Ferric Oxide	(Fe ₂ O ₃)			%	3.25
Calcium Oxide	(CaO)			%	64.85
Magnesium Oxide	(MgO)	Max.	6.0	%	1.44
Sulphur Trioxide	(SO ₃)	Max.	3.5	%	2.10
Phosphorus Pentoxide	(P ₂ O ₅)			%	0.28
Alkali	(0.658K ₂ O+Na ₂ O)			%	0.51
Insoluble Residue	(IR)	Max.	0.75	%	0.08
L.S.F				%	93.21
S.M				%	2.39
I.M				%	1.72
C ₃ S				%	55.20
C ₂ S				%	18.96
C ₃ A				%	9.31
C ₄ AF				%	9.90
Blaine (Air Permeability App)		Min.	2800	cm ² /g	3,360
45 μ m Residue				%	12.6
Initial Time		Min.	45	mins	173
Final Time		Max.	375	mins	343
Water Demand				%	24.3
Compressive Strength	3Days	Min.	12	N/mm ²	34.7
	7Days	Min.	19	N/mm ²	39.5
	28Days	Min.	28	N/mm ²	45.2

We hereby certify that the content of the report is correct and accurate and that the paradise cement herein has been made and/or tested in accordance with the above specification and with the requirement of customers order.

Date : December 16th, 2020

PNG Taiheiyo Cement Limited
 Lae Plant

Mr. Teguh Kristianto
 Factory Manager

Mr. Sumihito Ikeda
 Policy & Planning Manager/ QC