SD Index
Economic Performance

SD Index - Economic Performance					GRI Standards
Index	Unit	2021	2020	2019	
Sales					
Net sales	Million baht	41,678	42,000	47,593	GRI 201-1
Input factor (cost of all goods, materials and services)	Million baht	28,272	27,464	33,380	GRI 201-1
Depreciation and amortisation	Million baht	3,893	3,925	3,330	GRI 201-1
Value Creation					
Benefit to employees	Million baht	4,055	4,455	5,668	GRI 201-1
Benefit to government (taxes)	Million baht	(89)	756	698	GRI 201-1
Benefit to shareholders	Million baht	2,682	1,192	2,384	GRI 201-1
Benefit to creditors	Million baht	1,238	1,374	1,459	
Retained in business	Million baht	1,628	2,833	674	
Suppliers					GRI 308-1/ GRI 414-1/ GRI 204-1
Suppliers screened (OH&S, labour standards, legal compliance, environmental standards, as percentage of spending)	%	75	75	75	
Government Relations					
Political contributions	Million baht	0	0	0	
Government subsidies received	Million baht	0	0	0	
Customer Relations					
Customer satisfaction surveys conducted		YES	YES	YES	

Remark

2020 and 2019 Reporting as a Group Company (excluding CMIC)

2021 SD data started its reporting as a Group Company (including CMIC 40 percent shared equity)

SD Index
Social Performance

SD Index - Social Performance					GRI Standards
Index	Unit	2021	2020	2019	
Number of employees	Person	5,100	4,734	5,711	GRI 102-8
Proportion of employees by level					
Top & senior management	%	5.39	6.02	5.52	
Middle level management	%	47.77	38.14	44.35	
Other employees	%	46.84	55.85	50.32	
Portion of female employees by level					GRI 102-8
Top & senior management	%	18.04	19.80	8.23	
Middle level management	%	18.62	17.12	19.80	
Other employees	%	5.07	7.57	17.63	
Ratio of female to male salary					GRI 405-2
Top & senior management	%	0.52	2.43	0.48	
Middle level management	%	0.60	2.76	0.70	
Other employees	%	0.58	2.87	0.72	
Portion of local employees	%	65.53	60.42	98.76	
Employee turnover	%	8.76	15.90	10.04	GRI 401-1
Employee satisfaction survey conducted		YES	-	-	
Training					GRI 404-1
Average hours of training per employee	Hours	20.43	22.17	32.29	
Occupational Health and Safety					GRI 403-2
Number of fatalites (employees, contractors and third-party)	Case	1	3	3	
Lost time injury frequency rate (employees and contractors per million man-hours)	%	0.25	0.38	0.48	
Community Involvement					GRI 203-1/ GRI 413
Donations, CSR and Community Spending	Million baht	51.0	36.7	27.7	
Stakeholder Engagement					GRI 413-1
Needs assessments		YES	YES	YES	
Stakeholder Engagement in CSR planning		YES	YES	YES	
Stakeholder dialogues		YES	YES	YES	
Community advisory panels		YES	YES	YES	

Remark

2020 and 2019 Reporting as a Group Company (excluding CMIC)

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SD INDEX
Environmental Performance

SD Index - Environmental Performance					GRI Standards
Index	**Unit**	**2021**	**2020**	**2019**	
Materials Used					
Non-renewable materials used	Million tonnes	22.9	22.8	27.3	GRI 301-1
Renewable materials used	Million tonnes	1.9	1.0	0.5	GRI 301-1
Environmental Investments and Compliance					
Total environmental protection expenditures and investments	Million baht	155.2	39.1	60.8	GRI 307-1
Non-compliance cases	Number of case	0	3	2	GRI 307-1
Significant fines for non-compliance with environmental laws	Million baht	0.00	0.45	0.72	GRI 307-1
Energy					
Total energy consumption within the organization	MJ/tonne clinker	3,256	3,241	3,168	GRI 302-3
Total electricity consumption	kWh/tonne cement	87.1	86.7	87.2	GRI 302-3
Alternative fuel thermal substitution rate	%	11.6	11.3	12.8	
Total alternative fuel consumption	tonnes	354,505	318,012	384,912	
Renewable electricity consumption	%	19.5	17.4	16.1	
CO_2 Emissions					
Gross direct (Scope 1) GHG emission	Million tonnes CO_2	10.95	10.90	12.04	GRI 305-1
Specific net CO_2 emissions	kg CO_2/tonne cementitious material	616	*622	619	
Clinker factor	%	74.4	73.8	74.3	
Other Atmospheric Emissions					
NO_x	grams/tonne cementitious material	873	867	505	GRI 305-7
SO_2	grams/tonne cementitious material	49	37	34	GRI 305-7
Particulate matter	grams/tonne cementitious material	38	38	30	GRI 305-7
Water					
Total water withdrawal	Megaliters	5,393	5,577	5,809	GRI 303-3
Surface water withdrawal	Megaliters	1,945	1,756	1,885	GRI 303-3
Groundwater withdrawal	Megaliters	3,047	3,347	3,600	GRI 303-3
Third-party water withdrawal	Megaliters	401	404	356	GRI 303-3
Specific water consumption	litre/tonne cement product	264	307	261	

Remark
2020 and 2019 Reporting as a Group Company (excluding CMIC)
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* Reconsolidated data
The Company is planing for verification process

GCCA INDEX

GCCA index				
Index	**Unit**	**2021**	**2020**	**2019**
Production				
Cement production	tonne/year	16,980,690	16,087,715	17,349,680
Cementitious production	tonne/year	17,325,828	17,065,410	18,771,133
Clinker production	tonne/year	12,976,952	12,854,004	14,304,919
Specific heat consumption for clinker production	MJ/tonne of clinker	3,256	3,241	3,168
Thermal substitution rate (TSR) of alternative and biomass fuels	%	11.6	11.3	12.8
Alternative fuel rate (kiln fuels)	%	8.0	8.6	11.0
Biomass fuel rate (kiln fuels)	%	3.6	2.7	1.8
Clinker/cement factor	%	74.4	73.8	74.3
Specific Electrical Energy Consumption	kWh/tonne of cement product	87.1	86.7	87.2
Material used				
Alternative and biomass fuels	tonne/year	354,505	318,012	384,912
Alternative Raw Materials rate (% ARM)	%	6.6	4.9	2.6
Slag	tonne/year	505,653	544,748	640,874
Fly Ash	tonne/year	356,346	321,806	307,296
Supplementary Cementitous Material (SCM)	tonne/year	4,348,876	4,211,406	4,466,215
CO_2 emission scope 1				
Specific CO_2 emissions - net	kg/tonne of cementitious material	616	622	619
Specific CO_2 emissions - net	kg/tonne of cement product	628	660	670
CO_2 emission scope 2				
Specific CO_2 emissions	kg/tonne of cementitious material	42	43	52
Specific CO_2 emissions	kg/tonne of cement product	43	45	56

GCCA INDEX

GCCA index				
Index	**Unit**	**2021**	**2020**	**2019**
Other atmospheric emissions				
Overall coverage rate	%	99	100	99
Coverage rate continuous measurement	%	99	100	100
Specific emission of PM	g/tonne of clinker	51	51	39
Specific emission of NO_x	g/tonne of clinker	1,165	1,151	662
Specific emission of SO_2	g/tonne of clinker	65	49	45
Specific emission of VOC/THC	g/tonne of clinker	32	7	37
Specific emission of Hg	mg/tonne of clinker	13	32	35
Specific emission of HM1	mg/tonne of clinker	3	5	12
Specific emission of HM2	mg/tonne of clinker	82	48	157
Specific emission of PCDD/F	ng/tonne of clinker	94	50	375
PM coverage rate	%	99	100	100
NO_x coverage rate	%	99	100	100
SO_2 coverage rate	%	99	100	100
VOC/THC coverage rate	%	95	100	100
Hg coverage rate	%	95	100	100
HM1 coverage rate	%	95	100	95
HM2 coverage rate	%	95	100	95
PCDD/F coverage rate	%	95	100	100
Water				
Total water withdrawal	Megaliters	5,393	5,577	5,809
Surface water withdrawal	Megaliters	1,945	1,756	1,885
Groundwater withdrawal	Megaliters	3,047	3,347	3,600
Third-party water withdrawal	Megaliters	401	404	356
Water consumption	Megaliters	4,486	4,934	4,537
Amount of water consumption per unit of product	litre/tonne of cementitious product	259	289	242

GCCA INDEX

GCCA index				
Index	**Unit**	**2021**	**2020**	**2019**
Biodiversity				
Total number of quarry under management control	Number	11	7	7
Total number of quarry with high biodiversity value	Number	5	4	4
Total number of quarry with Biodiversity Management Plan (BMP) implemented	Number	8	7	7
Total number of quarry with Quarry Rehabilitation Plan (QRP) implemented	Number	9	7	7
Safety				
Fatality Rate (directly employed)	%	0	0	0
Number of fatalities (directly employed, contractors, sub-contractors, third parties)	Number	1	2	3
LTI Frequency Rate (directly employed)	%	0.28	0	0.9
LTI Frequency Rate (contractors and sub-contractors on site)	%	0.25	0.44	0.85
LTI Severity Rate (directly employed)	%	0.31	0	14.9

Remark

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