



GRI INDICATORS: SUSTAINABILITY PERFORMANCE (2018-2021)

		GRI Std. / GCCA KPIs	SDG Target	Assurance	2018	2019	2020	2021	TARGET 2021
Economic Performance & Value Creation									
Net Sales	₹ crores	201-1	8.1,8.2		10,977	11,353	11,175	13,794	
Direct Economic value generated	₹ crores	201-1			11,602	12,094	11,744	14,185	
Payments to providers of capital	₹ crores	201-1			380	381	3,657	1,342	
Payments / Benefit to governments (taxes)	₹ crores	201-1			473	81	465	1,092	
Direct economic value distributed	₹ crores	201-1			10,403	10,894	13,448	13,210	
Economic Value Retained (=Economic Value generated - Economic value distributed)	₹ crores	201-1			1,199	1,200	(1,704)	975	
Operating costs	₹ crores	201-1			9,465	9,519	8,725	10,757	
Suppliers			9.1.2, 9.3.32, 12.7.1, 10.7		2018	2019	2020	2021	TARGET 2021
Number of Suppliers				√	7,874	8,359	7,681	8,312	
Number of local (Indian) suppliers		204-1		√	7,792	8,260	7,597	8,243	
Number of foreign suppliers				√	82	99	84	69	
% of suppliers identified as "High Risk" (for sustainability criteria aligned with Supplier Code of Conduct)		308-1, 308-2, 414-1, 414-2		√	7%	6%	7%	5%	
Number of Suppliers screened through Self Assessment Questionnaire (social, environmental aspects)				√	553	518	518	441	
Total suppliers assessed during the year				√	767	1,548	1,547	1,095	
No. of Suppliers with non compliance				√		96	116	165	
No. of suppliers with action plan				√		72	62	81	
No. of suppliers showed performance improvement				√		58	56	47	
Monetary value of payments made to suppliers	₹ crores			√	9,395	9,479	8,708	11,975	
Proportion of spending on local suppliers	%			√	96	98	92	92	
Expenditure on Raw Materials				√	-	-	-	-	
Imported	%			√	3%	6%	3%	0%	
Indian	%			√	97%	94%	97%	100%	
Expenditure on Spares					-	-	-	-	
Imported	%			√	11%	18%	32%	10.4%	
Indian	%			√	89%	82%	68%	89.6%	
Government relations				√	2018	2019	2020	2021	TARGET 2021
Political contribution	₹ crores	415-1, 201-1			Nil	Nil	Nil	Nil	
Total monetary value of financial assistance received from governments (grants, tax, reliefs and other finance benefits)	₹ crores	201-4 (a)			234	205	48	3	

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Customer Satisfaction									
Overall Net Promoter Score (NPS)	%			√	54%	59%	79%	81%	
Data coverage (e.g. as % of revenues, customers, etc.):	%			√	NA	30%	65%	63%	
Environmental Performance					2018	2019	2020	2021	TARGET 2021
Number of plants (Cement, Grinding plants)	#			√	13	13	13	14	
Plants certified by 3rd party for ISO:14001 EMS	#			√	13	13	13	13	
Environmental investments	₹ crores	307-1		√	102	118	31	154	
Savings, cost avoidance, income, tax incentives, etc.	₹ crores			√	153	31	5	21	
Number of plants/quarries reporting non-compliance cases	#			√	Nil	Nil	Nil	Nil	
Fines or penalties paid for environmental non-compliances	₹				0	0	0	0	
Clinker Production Details			8.4.1, 12.2	√	2018	2019	2020	2021	TARGET 2021
Clinker Produced	Tonnes			√	1,56,75,998	1,53,16,910	1,41,58,685	1,74,00,911	
Clinker Consumed	Tonnes			√	1,58,08,639	1,55,29,918	1,43,77,385	1,63,08,019	
Limestone-Own mines	Tonnes			√	2,24,12,489	2,20,49,486	2,00,84,455	2,50,47,566	
Limestone Purchased	Tonnes			√	12,77,131	5,68,709	6,81,933	3,07,131	
Total Limestone	Tonnes			√	2,36,89,620	2,26,18,195	2,07,66,388	2,53,54,697	
Clay & Shale	Tonnes			√	5,34,998	5,70,698	6,16,836	7,36,159	
Silica corrective (Sandstone, Silica sand, Bed Material, China Clay)	Tonnes			√	1,46,371	84,074	82,335	85,797	
Gypsum used in Kiln Raw Mill (SO3-provider)	Tonnes			√	12,113	1,272	11,081	37,861	
Iron correctives (Iron ore, Iron scales, Laterite, Blue dust, Mill scales, LD Sludge, Tailing Waste)	Tonnes			√	2,12,172	2,24,672	1,65,588	2,05,228	
Alumina correctives (Bauxite, Flyash, Red ocre, Brown ocre, Low silica laterite)	Tonnes			√	1,56,880	2,12,648	1,96,682	2,90,624	
Bottom/Bed ash	Tonnes			√	27,293	13,599	18,703	22,807	
Cementitious Material produced	Tonnes			√	2,41,92,935	2,37,12,206	2,20,52,855	2,69,75,680	
Cement Produced	Tonnes			√	2,43,25,576	2,39,25,304	2,22,71,555	2,58,82,788	
OPC	Tonnes			√	24,27,930	26,28,100	22,87,536	27,53,041	
Blended (PPC and Composite)	Tonnes		9.4, 9.5, 12.2, 12.4	√	2,18,97,646	2,12,97,204	1,99,84,019	2,31,29,747	
Total Gypsum Consumption	Tonnes			√	11,44,383	12,82,712	13,82,839	17,42,899	
Natural Gypsum	Tonnes			√	7,09,570	7,95,359	9,61,902	13,41,655	
Synthetic & Phospho Gypsum	Tonnes			√	4,34,813	4,87,353	4,20,937	4,01,311	
Flyash/Chemical Additives	Tonnes			√	61,52,996	69,17,638	63,14,501	76,16,856	
Slag	Tonnes			√	95,343	1,82,498	2,81,879	2,06,015	
Total Raw Materials Used	Tonnes			√	5,57,66,446	5,45,43,703	5,03,21,341	6,14,47,692	
Total Recycled Raw Materials used	Tonnes			√	69,84,154	78,55,910	71,16,411	85,36,826	
% of Materials used that are Recycled Input Materials	%			√	12.52%	14.40%	14.14%	13.89%	



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		GRI Std. / GCCA KPIs	SDG Target	Assurance	2018	2019	2020	2021	TARGET 2021
Alternative Material Rate	%			√	31.60	31.70	31.50	32.00	
Clinker factor (average % of clinker in cement)	%		9.3,9.4	√	64.99	64.91	64.55	63.01	
Share of Sustainable Products	%	301-2		√	90%	89%	90%	89%	
Revenue from Sustainable Products	%		12.5.1	√	92	89	89.5	89.5	
Sustainable Solutions Provided					2018	2019	2020	2021	TARGET 2021
Instant Mix Proportion	No. of sites				36,647	43,433	14,721	14,824	
Modular Curing System	No. of sites				9,078	7,714	2,391	1,994	
Rain Water Harvesting System	No. of sites				282	893	253	100	
Water Saved (Credit) at Customer Sites	m3				2,38,200	2,22,760	68,598	49,600	
CO₂ emissions			9.4.1, 12.2.2, 13.1	√	2018	2019	2020	2021	TARGET 2021
Total Scope 1 Direct emissions (Absolute gross: cement & onsite power generation)	Tonnes of CO ₂	305-1, GCCA		√	1,48,49,220	1,45,23,738	1,34,05,629	1,61,80,247	1,62,00,000
Total Scope 2 Indirect Emissions from Imported Electricity	Tonnes of CO ₂			√	5,39,597	5,51,219	5,37,403	6,01,907	6,10,000
Total Scope 3 emissions	Tonnes of CO ₂	305-3		√	19,32,218	19,73,623	17,55,911	19,38,531	
Number of Plants included in Scope-3 emissions				√	13of13	16of16	16of16	16of16	
CO₂ from Alternate Fossil Fuel									
Biomass (kiln & non-kiln fuels)	Tonnes of CO ₂			√	1,76,348	1,56,599	1,26,038	1,80,010	
Other Alternate Fossil Fuels	Tonnes of CO ₂			√	1,52,876	1,67,498	1,42,687	1,61,658	
Specific Absolute emissions (Scope-1)	(kg CO ₂ /t cement)			√	614	613	608	600	
Specific CO ₂ from CPP	(kg CO ₂ /t cement)			√	77.9	74.8	71.6	65.0	
Specific Gross CO₂ emissions (Scope-1)	(kg CO ₂ /t cement)	305-4, CSI		√	536	538	536	534.8	
Specific Net CO₂ emissions (Scope-1)	(kg CO ₂ /t cement)	GCCA		√	530	531	531	528.8	
Reduction in Net CO₂ per tonne of cementitious product (Scope-1) relative to base year 1990	%	305-5		√	31.4%	31.3%	31.2%	31.5%	
Specific CO₂ emissions (Scope-2)	(kg CO ₂ /t cement)			√	22	23	24	22	
Other atmospheric emissions		305-7		√	2018	2019	2020	2021	TARGET 2021
Number of kilns reporting				√	9	9	9	10	
Coverage rate of CEMS (for dust, NO _x , SO _x)		GCCA		√	98	99	99	99	
SO _x emissions	Tonnes	GCCA		√	1,029	1,031	974	1,966	1,200
NO _x emissions	Tonnes	GCCA		√	26,886	20,150	17,888	16,073	22,000
Dust emissions	Tonnes	GCCA	11.6.2	√	530	371	507	466	500
Average Mercury (Hg) emissions	Tonnes			√	0.014	0.014	0.019	0.009	0.015
Average SO _x specific concentration	g/tonne cement			√	42.5	43	44	72.9	
Average NO _x specific concentration	g/tonne cement			√	1,111.3	850	811	595.8	

		GRI Std. / GCCA KPIs	SDG Target	Assurance	2018	2019	2020	2021	TARGET 2021
Average Dust specific concentration	g/tonne cement			√	21.9	16	23	17.3	
Energy									
Direct /Thermal Energy Consumption		302-1	12.2						
Kiln Fuel Consumption									
Coal	TJ			√	14,439	15,869	18,261	37,652	
Petrol coke	TJ			√	32,534	30,741	25,323	13,765	
Diesel oil	TJ		7.1,7.2	√	81	83	78	92	
Alternative fossil and mixed fuels	TJ		7.1,7.2	√	1,904	2,032	1,494	2,071	
Biomass fuels	TJ			√	895	613	406	714	
Non-Kiln Fuel Consumption									
Coal	TJ			√	13,395	14,823	14,402	14,781	
Petrol coke	TJ			√	3,296	1,658	1,295	750	
(Ultra) heavy fuel, bitumen	TJ			√	40	35	82	15	
Diesel oil	TJ			√	713	678	611	12	
Alternative biomass fuels	TJ		7.1, 7.2	√	748	834	917	893	
Total Energy consumption from Fossil and other fuels	TJ			√	68,044	67,368	62,869	70,745	
	MWh			√	1,89,01,043	1,87,13,323	1,74,63,736	1,96,51,445	
Direct Energy Consumed from Wind & Solar Power Generation	Core Units (Kwh)			√	0.94	0.97	1.76	1.99	
	MWh			√	9,400	9,700	17,581	19,910	
	TJ			√	34	35	63	72	
Electricity Purchased/ Imported (Indirect Energy) (excl. Corp & mktg offices)	Core Units (Kwh)			√	59	60	58	66	
	MWh			√	5,85,278	5,99,151	5,84,167	6,61,437	
	TJ			√	2,107	2,157	2,103	2,381	
Total Direct & Indirect Energy Consumption from all sources	TJ			√	70,185	69,560	65,036	73,198	
	MWh			√	1,94,95,721	1,93,22,174	1,80,65,485	2,03,32,792	1,83,19,459
Total Power Generation	MWh			√	13,28,759	12,92,962	11,72,722	13,30,346	
WHR Power	MWh			√	31,461	35,317	35,538	44,125	
Renewable Energy Generation	MWh		7.2, 7.3	√	9,432	9,888	16,611	35,264	
RE Certificates Purchased	MWh			√	0	65,506	0	1,89,910	
Total RE Consumed (Purchased or Generated)	MWh			√	9,432	75,394	16,611	2,25,174	
% of RE in total power generation	%			√	0.7%	0.8%	1.4%	2.7%	
% RE in total energy consumed	%			√	0.0%	0.4%	0.1%	1.1%	
Total installed RE capacity	MWh		7.3, 13.2	√	29.39	29.39	34.53	34.53	
Power and fuel expenses	Core ₹			√	2,549.69	2,586.42	2,251.91	3,421.01	
Thermal energy efficiency	MJ/ton clinker	302-3	7.3, 9.4, 13.2	√	3,180	3,221	3,218	3,122	3,200
	KCal/Kg of Clinker			√	760.0	769.9	769.1	746.2	
Electrical energy efficiency	Kwh/ton cement	302-3	7.3, 9.4, 13.2	√	76.63	77	77	74	
Energy intensity based on Turnover	MWh/Cr				1,776	1,702	1,617	1,474	
LDO consumption	(Ltr/T of Clinker)			√	0.13	0.141	0.136	0.141	
Co-processed Waste (AF used)	Tonnes in lakhs		12.5	√	2.9	3.1	2.8	3.7	



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		GRI Std. / GCCA KPIs	SDG Target	Assurance	2018	2019	2020	2021	TARGET 2021
Thermal Substitution Rate	%	301-2		√	5.61	5.36	4.17	5.13	
(% thermal energy from alternative fuels)									
Biodiversity and resources conservation			15.1.1, 15.2.1, 15.5.1	√					
Total number of quarries			15.3.1	√	10	10	10	14	
Total land disturbed	Ha	304 (1,3), MM1		√	1,607	1,618	1,719	1,966	
Total rehabilitated area	Ha			√	154	164	169	200	
Total land disturbed but not yet rehabilitated as presently used for working	Ha			√	832	716	1,550	1,732	
Approved mining plans of local authorities (% sites)	%	304-1		√	100	100	100	100	
% of sites with quarry rehabilitation plans in place	%	"304-3, GCCA"		√	100	100	100	100	
Number of biodiversity-sensitive sites				√	2	2	2	2	
Number of biodiversity-sensitive sites with Biodiversity Action Plans in place		GCCA		√	2	2	2	2	
Number of IUCN Red List species	Critically Endangered			√	1	1	1	1	
	Endangered			√	1	1	1	1	
	Vulnerable			√	3	4	4	8	
	Near Threatened			√	4	21	23	24	
	Of Least Concern			√	175	175	175	222	
Water					2018	2019	2020	2021	TARGET 2021
Water Withdrawal		303-1	6.1,6.3, 6.6		-	-	-		
From groundwater	m3			√	23,08,324	21,33,706	17,59,402	17,39,842	
From surface water	m3			√	17,80,853	19,22,975	19,61,615	19,61,067	
From harvested rainwater	m3			√	14,64,778	18,28,799	14,93,686	19,58,135	
3rd party purchase/municipal water	m3			√	7,02,667	6,27,449	5,99,880	4,53,977	
Total Water Withdrawn	m3			√	62,56,622	65,12,930	58,14,583	61,13,021	
Recycled Water (from STP/ETP/RO Reject etc.)	m3	303-3	6.3,14.1.1	√	9,20,043	9,74,101	8,64,554	9,42,165	
% of sites with water recycling	%				100	100	100	100	
% of water recycled	%			√	15%	15%	15%	15%	
Total water discharge	m3	306-1		√	51,872	63,939	48,831	24,168	
Total Net Freshwater Consumption	m3			√	47,39,972	46,20,191	42,72,066	41,30,718	45,00,000
Water Balance Index				√	6	8	8	8	
Specific Operational Fresh Water withdrawal	lit/t cement			√	63	68	77	58	
% of sites in water stressed area	%			√	23	30.7	39	39	
Outbound Logistics / Dispatches					2018	2019	2020	2021	TARGET 2021
Sea (Bulk Cement Ships)	Mil. Tonnes			√	3	3	3	3.1	
Railways (railway/Rake)	Mil. Tonnes			√	6	6	5	6	
Road (Trucks & Bulkers)	Mil. Tonnes			√	15	15	15	17	

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Total	Mil. Tonnes			√	24	24	22.2	26	
Sea	%			√	12%	13%	12%	12%	
Rail	%			√	25%	24%	23%	23%	
Road	%			√	63%	63%	66%	65%	
Road Direct Dispatch	%			√	57%	55%	60%	57%	
Lead Distance	Kms				283	276	278	248	
Waste management and recycling					2018	2019	2020	2021	TARGET 2021
Hazardous waste generated	Tonnes	306-2	12.4.2	√	511	646	326	382	
Non-hazardous waste generated	Tonnes			√	3,83,200	4,14,287	3,42,071	3,92,501	
Total Waste disposed	Tonnes		11.6.1	√	73	45	24	54	100
Waste reused/recycled/sold				√	3,83,638	4,14,888	3,42,374	3,92,829	
Waste Mgmt System Data Coverage (%)				√	100	100	100	100	
Co-processed Waste (AF used)	Tonnes in lakh			√	2.9	3.1	2.8	3.7	
Plastic Wastes Co-processed	Tonnes			√	69,082	94,570	83,138	1,26,095	
HDPE Plastic bags used for cement packaging	Tonnes			√	32,008	34,839	33,368	35,677	
Plastic Negative Index = Plastic Wastes Coprocessed/Plastic packaging bags				√	2.2	2.7	2.5	3.5	
Total Waste Derived Resource consumed (Flyash, slag, AF,AR,Syn/phospho gypsum)	million tonnes			√	7.9	8.7	8.2	8.6	
Social Performance					2018	2019	2020	2021	TARGET 2021
Employment practices			9.2.2	√	2018	2019	2020	2021	TARGET 2021
Number of Permanent Employees		102-8		√	5,058	5,068	4,923	4,723	
Management staff				√	3,536	3,562	3,416	3,370	
Non-Management staff				√	1,522	1,506	1,507	1,469	
Male				√	4,940	4,943	4,798	4,586	
Under 30 years of age				√	452	415	414	329	
30-50 years of age				√	3,486	3,248	2,968	2,971	
>50 years of age				√	1,002	1,280	1,416	1,286	
Female		405-1		√	118	125	125	137	
Under 30 years of age				√	36	36	39	47	
30-50 years of age				√	72	78	73	77	
>50 years of age				√	10	11	13	13	
Female-Top management level			5.1.2	√	2	3	3	3	
Female-Senior management level				√	3	1	1	3	
Female-Middle management level				√	22	21	22	26	
Number of temporary/contractual/casual Employees		102-8		√	5,995	6,392	6,057	6,177	
Male				√	5,972	6,364	6,030	6,151	
Female				√	23	28	27	26	
Number of Employees with Disability		405		√	21	6	11	10	
New employee hires		401-1	8.3, 8.9	√	376	555	142	342	
Male < 30 years				√	189	243	48	125	



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Male 30-50 years				√	159	265	72	176	
Male >50 years				√	11	13	9	9	
Female < 30 years				√	13	19	7	23	
Female 30-50 years				√	4	15	6	8	
Female >50 years				√	0	0	0	1	
Employee turnover (%)		401-1		√	12.36	10.8	6.36	8.76	
Notice given for operational changes				√	1 month	1 month	1 month	1 month	
Employee Engagement Score				√	NA	NA	NA	NA	
Employee grievance procedures in place				√	Yes	Yes	Yes	Yes	
Anonymous grievances submission				√	Yes	Yes	Yes	Yes	
No. of training programs conducted (Total)				√	12,096	457	702	676	
Top Management Level				√	68	16	30	29	
Senior Management Level				√	956	105	150	151	
Middle Management Level				√	5457	164	238	236	
Other org. levels (FML & Wage Board)				√	5615	172	284	260	
Hours of training per employee	hrs / employee	404-1		√	18.05	6.3	11	8	
Top Management Level	hrs / employee			√	2.68	7	5	4	
Senior Management Level	hrs / employee			√	5.44	14	13	8	
Middle Management Level	hrs / employee			√	4.28	17	13	9	
Other organisational levels (FML & Wage Board)	hrs / employee			√	5.65	4	11	11	
Ratio of % increase in annual total compensation for the highest-paid individual to the median % increase in annual total compensation for all employees				√	17.85	-1.36	0	1.2	
Ratio of Management level salary (Base) (Female:Male)						1.01	1.17	1.36	
No. of employees who opted parental leave					7	8	7	3	
No. of employees who resumed office after parental leave					6	6	6	2	
No. of employees who are still on parental leave					1	2	1	1	
Health and Safety			8.1,8.2		2018	2019	2020	2021	TARGET 2021
% of workforce represented by committees.	%	403-1		√	100	100	100	100	
% Plants with joint health and safety committees	%	403-1		√	100	100	100	100	
Plants certified with OHSAS 18000				√	All	All	All	All	
Safety training Hours (Total)	Hours			√		93,409	71,726	78,976	
Directly Employed (own and subcontractors)	Hours			√		9,657	9,482	18,322	
Indirectly employed (3rd party service providers)	Hours			√		11,506	19,168	27,484	
Drivers	Hours		3.6, 11.2	√		72,246	43,076	33,170	

		GRI Std. / GCCA KPIs	SDG Target	Assurance	2018	2019	2020	2021	TARGET 2021
Total Fatalities		403-2		√	5	4	0	1	
Employee Onsite				√	0	1	0	0	
Employee Offsite				√	0	1	0	0	
Contractor Onsite				√	2	0	0	1	
Contractor Offsite				√	2	1	0	0	
Third parties				√	1	1	0	0	
Lost-time injury frequency rate (LTIFR)	#/million Hrs.	403-2		√	0.58	0.40	0.28	0.21	
LTIFR Employee	#/million Hrs.			√	0.64	0.52	0.33	0.08	
LTIFR Contractor Onsite	#/million Hrs.			√	0.54	0.34	0.25	0.26	
Directly employed (Own & subcontractors onsite)				√	0.64	0.52	0.33	0.08	
Indirectly employed (3rd party service providers on site)				√	0.54	0.34	0.25	0.26	
Lost-time Incident Severity Rate (LTISR)				√	44.09	13.21	10.75	14.43	
LTI & MTI				√	56	36	26		
Occupational Diseased	Nos.	403-2		√	0	0	0	0	
Occupational Illness Frequency Rate(OIFR)	number/ million work hrs.			√	0	0	0	0	
Community involvement					2018	2019	2020	2021	TARGET 2021
Community investments (Benefit to communities)	₹ Crore	201-1		√	53.46	62.57	53.97	64.41	
Net New Direct Beneficiaries in the year	Number				3,07,997	1,66,967	1,13,301		
Total number of beneficiaries in the year	Millions	203-1 413-1	11.2	√	2.4	2.6	2.7	2.8	
Stakeholder engagement at local level:- Stakeholder dialogues, Need assessment. Stakeholder involvement in CSR planning, Community advisory panels, Community engagement plan.	% of sites	102-43		√	100	100	100	100	
Employee Volunteering									
Total Hours	Hrs				1,832	1,044	229	2,826	
Paid Working Hours	Hrs				1,035	788	181	2,826	
Monetary value of Paid Working Hours	₹ million				0.29	0.22	0.05		
Public Policy					2018	2019	2020	2021	TARGET 2021
Contribution/spending to trade/commerce/industry associations and initiatives	₹ million				1.9	1.1	0.73	8.7	

All figures include ACL's Standalone financial results. For some environmental parameters, offices & cement transportation terminals are not covered.