

Performance Table

Environment	Unit	2020	2019	2018
RAW MATERIALS-CEMENT				
Limestone	Million tonnes	21.4	26.8	24.9
Gypsum	Million tonnes	0.5	1.5*	1.2*
Synthetic Gypsum	Million tonnes	0.4		
Alternative raw material	Million tonnes	0.3	0.5	0.4
Slag	Million tonnes	2.8	2.8	3.2
Fly ash	Million tonnes	5.3	6.4	5.7
Limestone used as an additive	Million tonnes	0.4	NR	NR
Additives	Million tonnes	0.03	0.1	0.1
Others (Bauxite, Iron ore etc.)	Million tonnes	1.0	0.8	1.7
Lubricating oil (tonnes)	tonnes	261.0	268.5	471.0
Grease (tonnes)	tonnes	84.8	105.7	137.0
Weight of bags consumed	tonnes	33,794.8	38,969.2	36,374.7
% recycled materials used	%	27.6	24.8	25.0
<i>* Value is including synthetic gypsum</i>				
RAW MATERIALS-RMX				
Cement	tonnes	6,68,404	9,89,286	7,53,667
Slag	tonnes	35,053	76,401	75,726
Fly ash	tonnes	1,28,221	1,85,392	1,76,693
Sand	tonnes	3,62,741	5,64,213	20,82,169
Additives	tonnes	6,541	10,367	9,547
Aggregates	tonnes	24,34,512	36,89,929	29,42,832
Lubricating oil (tonnes)	tonnes	16.00	11.1	19.5
Grease (tonnes)	tonnes		8.5	8.2
Crushed rock fines	tonnes	14,50,963	22,56,850	15,00,000
CO₂ EMISSIONS-CEMENT				
Total CO ₂ Emissions - Gross (excl CPP)	tonnes	1,20,78,719	1,47,32,305	1,44,42,417
Total CO ₂ Emissions - Net (excl CPP)	tonnes	1,18,77,634	1,45,42,692	1,43,00,900
Total CO ₂ Emissions from CPP	Tonnes	17,72,925	22,29,574	23,35,729
Specific CO ₂ Emissions - gross	kg/tonne of cementitious material	501	518	511
Specific CO ₂ Emissions - net	kg/tonne of cementitious material	493	512	506
Scope 1 emissions cement (Including CPP)	tonnes	1,36,50,559	1,67,72,266	1,66,36,630
Scope 2 emissions cement	tonnes	6,01,750	5,56,073	5,34,401
Scope 3 emissions cement	tonnes	16,39,454*	5,91,171	6,66,259
<i>*This year we are reporting categories -1,3,4,6,7,9 whereas till last year it was only for category 4,6 and 9</i>				
CO₂ EMISSIONS-RMX				
Scope 1 emissions	tCO ₂	4,089	4,706.9	3,297.0
Scope 2 emissions	tCO ₂	6,160	4,831.3	4,932.0
Scope 3 emissions	tCO ₂	41,017*	58,915.0	43,878.0
<i>* only include category 4 and 9. Category 6 is already included in Cement.</i>				
OVERALL CO₂ REDUCTION ACHIEVED (SCOPE-1 &2)				
On account of thermal savings ⁽¹⁾	tCO ₂	-32,508	0.0	4,067
On account of electrical savings ⁽²⁾	tCO ₂	0	-26,822	88,464
On account of clinker factor improvement ⁽³⁾	tCO ₂	-2,63,609	1,24,322	3,97,293
<i>Note:</i>				
<i>(1) CO₂ emission reductions on account of thermal energy is calculated value.</i>				
<i>(2) CM Emission Factor (CO₂ Baseline Database for the Indian Power Sector – V 13 – June 2018 – by Central Electricity Authority) was used for calculating the CO₂ emissions on account of electrical savings.</i>				
<i>(3) CO₂ emission reductions on account of clinker factor improvement is calculated by multiplying amount of clinker saved with Kg CO₂/Tonne of Clinker</i>				

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EMISSIONS*				
NOx	g/t clinker	1,036.2	1,293.4	1,718.1
	g/t cement	634.9	816.6	1,051.3
	t	15,082.1	22,759.4	29,810.3
SOx	g/t clinker	134.5	101.7	127.7
	g/t cement	82.4	64.2	78.2
	t	1,957.7	1,789.8	2,216.1
Dust	g/t clinker	20.1	26.8	28.5
	g/t cement	12.3	16.9	17.4
	t	293.0	472.0	494.3

* The emissions reported are based on Kiln stacks only

ENERGY CONSUMPTION-CEMENT

KILN FUEL CONSUMPTION

Coal + petcoke	TJ	42,013.0	52,525.8	51,417.0
Diesel oil	TJ	36.0	44.7	62.0
Alternative fossil and mixed fuels*	TJ	2,458.0	2,329.9	1,744.0
Biomass fuels	TJ	650.0	748.0	648.0

NON-KILN FUEL CONSUMPTION-CPP

Coal + petcoke	TJ	18,250.0	23,472.7	25,510.0
Diesel oil	TJ	10.0	11.8	7.0
Alternative fuels	TJ	241.0	125.5	100.0
Alternative biomass fuels	TJ	214.0	224.4	167.0

NON-KILN FUEL CONSUMPTION

Diesel oil consumed for onsite vehicle movement (TJ)	TJ	450	557	NR
Fuels for drying of raw materials and mineral components (TJ)	TJ	1,206	1,149	NR
Electricity purchased/imported	MWh	6,54,964	6,92,162	6,01,649
Energy consumption outside the organisation**	TJ	5,975	7,978	8,991.0
Specific power consumption upto and including clinker prod	kWh/tonnes clinker	68.84	68.6	69.0
Specific power consumption upto and including cement grinding	kWh/tonnes cementitious material	77.4	76.4	77.8
Specific power consumption upto and including cement grinding, colony auxiliaries	kWh/tonnes cementitious material	79.6	78.4	79.8

* As per WBCSD protocol, alternative fossil fuel comprises of waste oil, waste tyres, plastics, solvents, impregnated saw dust etc

** Considered diesel as fuel consumed in transportation

ENERGY CONSUMPTION-RMX

Diesel oil	L	56.3	63.1	43.3
Electricity purchased	MWh	6,695	5,251.0	5,247.0
Energy consumption outside the organisation*	TJ	553.5	795.1	592.0

* Considered diesel as fuel consumed in transportation

Performance Table

Environment	Unit	2020	2019	2018
TOTAL DIRECT & INDIRECT ENERGY				
Total power generation	TJ	5,000	6,135	5,876
Total renewable energy generation	Million Units	35	36	35
% of RE in total power consumption	%	4	4	3
Renewable energy certificates purchased	MWh	31,381	1,14,565	97,415
Power and fuel expenses	₹Crore	2,572	3,134	2,998
Thermal energy efficiency	MJ/tonne clinker	3,106	3,129	3,099
Electrical energy efficiency	Kwh/tonne cement	81	80	81
WASTE GENERATION				
Hazardous waste				
Waste oil	litres	55,818.1	81,949.0	1,33,246.9
Grease	tonnes	22.0	42.6	52,046.0
Used batteries	tonnes	30.7	48.7	59.0
Biomedical waste	T	0.7	-	-
Ewaste	T	4.0	-	-
Non-hazardous waste				
Steel scrap	tonnes	8,884.4	9,235.9	11,810.4
Others	tonnes	5,002.0	5,050.8	7,329.7
Filter bags	No.	20,863.8	26,729.0	81,510.0
Note:				
1. Steel Scrap includes castings, waste steel, MS drums, wrapper scrap, iron scrap, grinding balls, HC lining plate, table liner, HC grinding media, etc.				
2. Others includes waste cement bags, conveyor belts, wood, copper, plastic bags, electrical cables, empty glass bottles, aluminum, tyres, paper, PVC drums, HDPE wrapper, etc.				
TOTAL WATER WITHDRAWAL IN CEMENT OPERATIONS				
Surface water	million m ³	1.71	1.98	6.71*
Harvested rainwater	million m ³	1.75	2.46	6.74*
Municipal water	million m ³	0.00	0.00	0.09*
Ground water	million m ³	0.17	0.22	1.17*
Percentage of sites with water recycling	%	100	100	100
Total quantity of water treated and reused annually	%	17.4	17.3	12.2
Total quantity of water treated and reused annually	million m ³	0.6	0.8	1.7
TOTAL WATER WITHDRAWAL IN CPP OPERATION				
Surface water	million m ³	1.4	1.3	Included in above figure
Harvested rainwater	million m ³	3.0	4.4	
Municipal water	million m ³	0.0	0.0	
Ground water	million m ³	0.5	0.4	
WATER WITHDRAWAL IN COLONY				
Surface water	million m ³	1.2	1.5	Included in above figure
Harvested rainwater	million m ³	1.4	0.8	
Municipal water	million m ³	0.0	0.0	
Ground water	million m ³	0.6	0.2	
* Includes water used in CPP and Colony also				

Performance Table

Environment	Unit	2020	2019	2018
TOTAL WATER WITHDRAWAL-RMX				
Surface water	million m ³	0	0	0
Harvested rainwater	million m ³	0	0	0
Municipal water	million m ³	0.3	0.68	0.78
Ground water	million m ³	0.0	0.33	0.22
MINING AND BIODIVERSITY				
Total land area	Ha	6,823.4	6,823.4	6,823
Total rehabilitated area	Ha	794.86	789	752
Total land disbursed	Ha	1,972*	1,607	1,051
Plantation in mines	No.	75,725	1,01,541	1,40,000 (total)
Sites with rehabilitation plan	No.	17	17	17
Sites with biodiversity management plan/wildlife conservation plan	No.	5	5	5
<i>*In 2020, disturbed area also includes area of potential extraction</i>				
PRESENCE OF IUCN RED LIST SPECIES*				
Critically endangered	No.	1	1	1
Endangered	No.	2	2	2
Vulnerable	No.	2	2	2
Near threatened	No.	1	1	1
<i>*Only in the sites where we may have potential impact on biodiversity and wildlife conservation plan</i>				
	Unit	2020	2019	2018
PROCUREMENT				
Total No. of suppliers	No.	6,977	7,460	9,517
Indian suppliers (local)	No.	6,918	7,435	9,442
International suppliers	No.	59	25	75
% of suppliers identified as "High Risk"	%	7%	7%	6.2%
Number of suppliers screened (socials, environmental aspects)	No.	498	522	590
Monetary value of payments made to suppliers	₹ Crore	9,875	12,796	12,784
Proportion of spending on local suppliers	%	94.50%	98	97
ANTI CORRUPTION, ANTI-COMPETITIVE BEHAVIOUR				
Total complaints recieved under the EthicalView reporting policy in 2020		123	117	67
How many of them have been resolved		110	64	33
How many still under investigation:		15	46	34
<i>In 2020, there were 4 confirmed cases of corruption</i>				

Performance Table

Social	Unit	2020		2019		2018	
		Male	Female	Male	Female	Male	Female
TOTAL NUMBER OF EMPLOYEES AND THEIR BIFURCATION							
Total employees	No.	6,157	244	6,377	266	6,455	262
Management staff	No.	3,471	198	3,624	220	3,611	218
Non management staff	No.	2,686	46	2,753	46	2,844	44
AGE WISE-OWN EMPLOYEE BREAK UP							
<30	No.	788	79	1,015	104	1,030	102
30-50	No.	3,784	139	3,704	135	3,680	132
>50	No.	1,585	26	1,658	27	1,759	28
Total	No.	6,157	244	6,377	266	6,469	262
EMPLOYEE TURNOVER-AGE WISE							
<30	No.	117	19	117	22	136	22
30-50	No.	211	15	313	21	318	17
>50	No.	203	3	234	6	569	14
Total	No.	531	37	664	49	1,023	53
EMPLOYEE HIRES-AGE WISE							
<30	No.	85	9	312	34	216	25
30-50	No.	122	4	90	0	150	6
>50	No.	4	1	174	17	7	1
Total	No.	211	14	576	51	373	32
Differently abled employees	No.	12	0	12	-	15	
PARENTAL LEAVES*							
No of maternal leave days	No.	-	182	-	182	-	182
Women took maternity leave	No.	-	12	-	11	-	15
Women returned to work after maternal leave	No.	-	9	-	13	-	18
Women still working after maternal leave	No.	-	5	-	2	-	2
Women resigned after/during maternal leave	No.	-	1	-	-	-	2
ANNUAL PERFORMANCE							
Managers who received annual performance	No.	3,477	201	3,624	220	3,611	218
<i>* We have parental leave policy only for women.</i>							
TRAINING HOURS							
For health and safety	No.	12,821	982	24,894	432	30,849	549
For IT training	No.	102	8	120	24	3,646	226
For management skills (Include soft skill training)	No.	7,466	1,149	24,255	1,101	41,837	1,436
For environment & sustainability	No.	958	41	134	1	1,493	18
Anti-corruption policies & procedures	No.	210	19	870	14	2,507	144
Other Trainings (Include operations & technical training)	No.	57,585	2,459	30,360	717	47,978	2,082
Total hours of training	No.	79,142	4,658	80,633	2,288	1,28,307	4,455
No. of training hours for management staff	No.	66,351	4,576	62,405	2,186	1,01,650	4,425
No. of training hours for non management staff	No.	12,790	83	18,228	102	26,657	30

Performance Table

Social	Unit	2020		2019		2018	
		Male	Female	Male	Female	Male	Female
EMPLOYEE COMPENSATION							
Ratio of basic salary of men to women	%	1.1		1.2		NR	
Management staff (Base salary)	₹	14,43,188	12,44,357	7,79,293	9,58,315	NR	
Management staff (Base salary + bonus etc)	₹	17,03,897	14,56,200	8,33,844	10,25,397	NR	
Non-management staff (Base)	₹	5,16,989	4,92,906	4,85,452	4,95,858	NR	
Employee grievance procedures in place	Yes/No	Yes	Yes	Yes	Yes	Yes	
Anonymous grievances submission	Yes/No	Yes	Yes	Yes	Yes	Yes	
HEALTH AND SAFETY							
Employee fatalities (No.)	No.	0	0	0	0	0	0
Fatality rates (directly employed)	#	0	0	0	0	0	0
Contractor fatalities (onsite)	No.	0	0	4	0	0	0
Contractors fatalities (off site)	No.	2	0	1	0	6	0
Employee Lost Time Injury (LTI) - Permanent employees	No.	2	0	7		NR	
Employee Lost Time Injury (LTI) - Contract employees	No.	8	1	8		NR	
Employee Lost Time Injury (LTI) - Total	No.	10	1	15		4	
Employee Lost Time Injury Frequency Rate (LTIFR) - Permanent employees	#	0.14		0.47		NR	
Employee Lost Time Injury Frequency Rate (LTIFR) - Contract employees	#	0.44		0.28		NR	
Employee Lost Time Injury Frequency Rate (LTIFR) - Total	#	0.31		0.34		0.26	
Employee Injury Rate (IR) - Permanent employees	#	0.75		0.94		NR	
Employee Injury Rate (IR) - Contract employees	#	0.87		0.76		NR	
Employee Injury Rate (IR) - Total	#	0.82		0.92		0.81	
Employee Lost day rate (LDR) - Permanent employees	No.	5.73		1.81		NR	
Employee Lost day rate (LDR) - Contract employees	No.	14.11		6.50		NR	
Employee Lost day rate (LDR) - Total	No.	10.62		4.83		6.18	
Number of permanent employees undergone risk based health assessment	%	100	100	100	100	NR	

NR = Not Reported