



CSI Key Performance Indices – UltraTech Cement Ltd.

KPI		FY 2010-11		FY 2011-12	
A	Climate Protection (excludes Captive Power)	Without Star Cement Co. LLC	With Star Cement Co. LLC*	Without Star Cement Co. LLC	With Star Cement Co. LLC*
i	CO ₂ emissions – Gross (tonnes)	25,740,501	27,469,355	26,187,142	28,133,152
ii	CO ₂ emissions – Net (tonnes)	25,696,642	27,425,258	26,144,199	28,077,825
iii	Specific CO ₂ emissions – Net (kg/tonne cementitious material)	631.22	636.59	633.87	638.65
iv	Target reduction for CO ₂	Reduction in CO ₂ emission intensity @ 0.5% annually up to 2015 – 16 with baseline year as 2009 – 10 resulting in the reduction of 2.96% over 6 years. This will also include CO ₂ emissions from Star Cement Co. LLC and upcoming projects.			
v	Independently verified CO ₂ data	Externally verified	Externally verified	Externally verified	Externally verified
B	Fuels and Raw Materials				
i	Specific heat consumption of clinker production (MJ/tonne clinker)	2,989	2,986	2990	2984
ii	Total Alternative Fossil Fuel Rate (% of thermal energy consumption)	1.14	1.07	1.03	1.26
a	Alternative Fuel Rate Non Biomass (% of thermal energy consumption)	0.59	0.56	0.56	0.67
b	Biomass Alternative Fuel Rate (% of thermal energy consumption)	0.55	0.51	0.47	0.59
iii	Alternative Raw Materials Rate (% total raw materials for cement production)	14.88	14.1	14.61	13.75
iv	Clinker/ Cement Ratio (%)	75.97	76.63	76.75	77.42
C	Health and Safety				
i	No. of fatalities (directly employed)	1	1	1	1
ii	No. of fatalities (indirectly employed)	6	6	2	2
iii	No. of fatalities (involving 3rd parties)	0	0	7	7
iv	No. of fatalities per 10,000 directly employed	1.26	1.18	1.3	1.36
v	Lost Time Injuries (LTIs) per 1million man-hours (directly employed)	0.95	0.9	0.82	0.79



D Emissions Reduction					
i	NO _x emissions (tonnes/year)	42,920 (21 out of 21 Kilns)	43,693 (22 out of 22 Kilns)	48397 (21 out of 21 Kilns)	51553 (22 out of 22 Kilns)
ii	SO ₂ emissions (tonnes/year)	4,205 (21 out of 21 Kilns)	4,226 (22 out of 22 Kilns)	4146 (21 out of 21 Kilns)	4246 (22 out of 22 Kilns)
iii	Dust emissions (tonnes/year)	6,717	6,741	6,348	6,405
iv	Specific NO _x emissions (g/tonne clinker)	1,370	1,308	1519	1505
v	Specific SO ₂ emissions (g/tonne clinker)	141	127	130	124
vi	Specific Dust emissions (g/tonne clinker)	200	187	186	175
vii	Target reduction for NO _x	To be fixed after the installation of continuous monitoring system in all Kilns and the release of SO ₂ / NO _x emission limits by regulatory authorities.			
viii	Target reduction for SO ₂				
ix	Target reduction for Dust				
x	% Clinker produced with monitoring of major and minor emissions	Major emissions – as in the next row. Minor emissions – measured only on sample basis if hazardous wastes are used as fuel.			
xi	% Clinker produced with continuous monitoring of major emissions - NO _x , SO ₂ , Dust	Dust – 80%	Dust – 81%	Dust – 80%	Dust – 81%
		NO _x , SO ₂ – 23%	NO _x , SO ₂ – 22%	NO _x , SO ₂ – 23%	NO _x , SO ₂ – 22%
E Local Impact		Plants Reported			
i	% of sites with quarry rehabilitation plans in place	100% Integrated sites	92.30% Integrated sites	100% Integrated sites	92.30% Integrated sites
ii	% of sites with community engagement plans in place	100% Integrated sites	92.30% Integrated sites	100% Integrated sites	92.30% Integrated sites
iii	No. of active sites where biodiversity issues are addressed	2	2	2	2
iv	No. of active quarries within, containing or adjacent to areas designated for their high biodiversity value	Nil	Nil	Nil	Nil

* Data of Star Cement Co. LLC includes the operations at Ras Al Khaimah, Ajman and Abu Dhabi in UAE, Bahrain and Bangladesh.