Table 3-3: concrete classification, mix design, and material specification

No	Item	Class of concrete		
		A	B	C
	Free Water/Cement Ratio	Þ0.40		Þ0.5
	Ph	7 < pH < 9		
	Chlorides	Þ0.025%		
	Sulphates	Þ0.035%		
	Alkali Carbonates & Bicarbonates	Þ0.05%		
	TDS	Þ0.2%		
7	Density			
	Minimum Kg/m^3	2400		2300
8	Slump	To be determined during design mix tests but normal range 75-125mm		
9	Admixtures	Strictly in accordance with manufacturer's instructions with $CaCl_2$ content zero		N/A
10	Temperature			
	Cement	Þ45°c when entering mixers		
	Concrete	At Placement Þ32°c		
	Shade	Þ40°c & Rising or < 43°c & Falling		
11	Quality Control on fresh and hardened concrete in accordance with clause 3.10 of this section			

3.2.2 Admixtures

A. Chemical: ASTM C494 and BS 5075.

1. Do not use admixtures containing chlorides.
2. Use water-reducing admixture, retarding admixture, and accelerating admixture in accordance with the manufacturer's recommendation.
3. Conduct trial mixes in the presence of the Engineer and the manufacturer representative.
4. Do not use admixture together with other admixture in the same mix.
5. Do not use admixture intended to change the flow characteristics, cohesion or rate of setting of the concrete without the approval of the Engineer.

3.2.3 Accessories

A. Bonding Agent: Polymer resin emulsion, Polyvinyl Acetate, Latex emulsion, two component modified epoxy resin, Non-solvent two-component polysulfide epoxy, Mineral filled polysulfide polymer epoxy, Mineral filled polysulfide polymer epoxy