D. SELECTION OF WATER-CEMENT RATIO

From Table -5 of IS-456

TRIAL I	TRIAL II	TRIAL III
0.45	0.495	0.405

0.495< 0.50, Hence OK.

E. SELECTION OF WATER CONTENT

From Table 2, water content for 20	**186.00**	kg/m^3
Adustment :- Add @ 3 % for every 25mm slump. Then actual water content	5.58	kg/m^3
	191.58	kg/m^3
Total		
Net water required	**191.58**	kg/m^3

F. CALCULATION OF CEMENT CONTENT

	TRIAL I	TRIAL II	TRIAL III		
Water-cement ratio	0.45	0.495	0.405		
Cement content	425.73	387.03	473.04	>360 and <450 Except trial III	kg/m^3 OK

G. PROPORTION OF VOLUME OF COARSE AGGREGATE AND FINE AGGREGATE

From Table 3, volume of coarse aggregate corresponding to 20 mm size aggregate and fine aggregate grading Zone-II = 0.62 perunit volume of total aggregate. This is valid for water-cement ratio of 0.45 In the present case water-cement ratio is 0.495.
Therefore,volumn of coarse aggregate =

Volume of fine aggregate content = 1- volume of CA

TRIAL I	TRIAL II	TRIAL III
0.630	0.621	0.639
0.370	0.379	0.361