

The Atrium

Report on Water quality

SI no.	Physio-chemical parameters	IS- 145343-2004 std for drinking water	Test results as at 15 Dec 2007			
			RO outlet water	RO Sump water	RO OHT water	Swimming pool water
1	Physical examination	Clear	Clear	Clear	Clear	Clear
2	Appearance after filtration	Clear	Clear	Clear	Clear	Clear
3	Colour as TCU	2.0	1.0	1.0	1	2.0
4	Turbidity as NTU	2.0	0.1	0.1	0.1	0.5
5	pH at 25° C	6.5-8.5	6.75	6.72	6.7	7.38
6	Conductivity at 25° C $\mu\text{ohm}/\text{cm}$	1000	230	220	220	1908
7	Total dissolved solids (TDS) mg/l	500	126	124	124	1908
8	Total suspended solids mg/l	Nil	Nil	Nil	Nil	Nil
9	Phenolphthalein alkalinity mg/l as Ca CO_3	Nil	Nil	Nil	Nil	Nil
10	Methylorange alkalinity mg/l as CaCO_3	200	72	70	70	468
11	Total hardness mg/l as Ca CO_3	200	2	2	2	288
12	Calcium hardness mg/l as Ca CO_3	200	2	2	2	216
13	Magnesium hardness mg/l as Ca CO_3	150	Nil	Nil	Nil	72
14	Carbonate hardness mg/l as Ca CO_3	150	2	2	2	288
15	Non Carbonate hardness mg/l as Ca CO_3	150	72	70	70	468
16	Calcium mg/l as Ca	75	1	1	1	86
17	Magnesium mg/L as Mg	30	Nil	Nil	Nil	18
18	Chloride mg/l as Cl^-	200	18	18	18	342
19	Sulphate mg/l as SO_4	200	8	8	8	54
20	Silica mg/l as SiO_2	-	0.5	0.4	0.4	48
21	Total Iron as mg/l as Fe	0.1	Nil	Nil	Nil	Nil
Bacteriological parameters						
1	Escherichia Coli (E. Coli)	Absent/ 250 ml	Absent/ 250 ml	Absent/ 250 ml	Absent/ 250 ml	Not tested
2	Coliform	Absent/ 250 ml	Absent/ 250 ml	Absent/ 250 ml	Absent/ 250 ml	Not tested

Note: Results as per Volviak Enviro Systems Laboratory Service Division report VOL/LS/5162-65 of 22 Dec 2007

Results show that drinking water meets requirements of IS-14543:2004 and is suitable for drinking

Swimming pool water is hard as expected and has higher Chlorine content as it is dosed to suppress bacteria