

The Atrium- Report on Drinking Water quality- Aug 2008

Sl no.	Physio-chemical parameters	IS- 10500/ 2003 std for drinking water	Test results as at 21 Aug 08							
			RO outlet water (sample 105/08)	RO Sump water (sample 106/08)	RO OHT water- F block (sample 112/08)	RO OHT water- L block (sample 111/08)	RO OHT water- M block (sample 1112/08)	RO water F401 (sample 107/08)	RO water L403 (sample 108/08)	RO water M403 (sample 109/08)
1	Physical examination- appearance	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
2	Appearance after filtration	-	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
3	Colour as Hazen unit	25.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4	Turbidity as NTU	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
5	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
6	pH at 25° C	6.5-8.5	7.3	7.4	7.85	7.97	8.01	8.25	7.85	8.2
7	Conductivity at 25° C µohm/ cm	1000	229	270	315	280	311	263	336	288
Chemical properties										
1	Total dissolved solids (TDS) mg/ l	2000	160.00	180.00	200.00	180.00	200.00	160.00	220.00	170.00
2	Total suspended solids mg/ l	-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	Phenolphthalein alkalinity mg/ l as Ca CO ₃	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4	Total alkalinity mg/ l as CaCO ₃	600	80.00	91.00	92.00	86.00	90.00	85.00	102.00	85.00
5	Total hardness mg/ l as Ca CO ₃	200	29.00	35.00	42.00	40.00	46.00	32.00	56.00	27.00
6	Calcium hardness mg/ l as Ca CO ₃	200	18.00	13.00	27.00	26.00	22.00	24.00	38.00	18.00
7	Magnesium hardness mg/ l as Ca CO ₃	100	11.00	22.00	15.00	14.00	24.00	8.00	18.00	9.00
8	Carbonate hardness mg/ l as Ca CO ₃	-	29.00	35.00	42.00	40.00	46.00	32.00	56.00	27.00
9	Non Carbonate hardness mg/ l as Ca CO ₃	-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
10	Calcium mg/ l as Ca	75	7.20	5.20	11.00	26.00	9.00	9.60	15.00	9.00
11	Magnesium mg/ L as Mg	30	2.64	5.28	4.00	3.36	6.00	1.92	4.32	7.00
12	Chloride mg/ l as Cl ⁻	1000	28.00	26.00	26.00	22.00	24.00	22.00	37.00	24.00
13	Sulphate mg/ l as SO ₄	400*	19.00	24.00	30.00	28.00	31.00	22.00	24.00	21.00
14	Silica mg/ l as SiO ₂	-	13.00	8.25	6.90	9.10	6.99	15.00	10.50	7.80
15	Total Iron as mg/ l as Fe	1	0.02	0.02	0.04	0.04	0.04	0.04	0.02	0.02
16	Free residual chlorine	0.2**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bacteriological parameters										
1	Escherichia Coli (E. Coli)	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2	Total coliforms	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
3	Fecal coliforms	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Note: Results as per Ekdant Enviro Services test reports 105/08-112/08 dated 21 Aug 2008

Results show that drinking water meets requirements of IS-10500:2003 and is suitable for drinking; integrity of storage and supply lines is maintained upto apartments

Swimming pool water was not tested as the pool was under servicing and was drained

** Applicable only if water is chlorinated

* If Magnesium is below 30