



**TAMILNADU WATER SUPPLY AND DRAINAGE BOARD**  
**State Level Water Testing Laboratory**  
 ISO 9001-2000 Certified (c.f.STQC,GOI NO.SQ/ISO 9001/434/dt.22.01.04)  
 TWAD House, No.31, Kamarajar Salai, Chepauk, Chennai-600 005.



**TEST REPORT**

Tmt.Tamilarasi,B.Sc.,B.Ed.,Ph.D.,  
 Chief Water Analyst.

Lr.No.10004/ F.1005/CWA/HO/TWAD/2009/dt. 04.06.10

To  
 M/S. Wilbur Smith Associates,  
 No.223, Midland Lane, Kohima,  
 Nagaland-797 001.  
 Sir,

Sub : Examination of water sample – Report furnished –Reg.  
 Ref : 1. Your Lr.No. Nil dt. 29.5.10  
 2. T.O.Invoice No.10004 /dt. 31.5.10 for Rs.1500/-- only.

The results of analysis for the sample tested under reference is enclosed.

Sample No.	31824	31825	31826
Date of Collection	29.05.10	29.05.10	29.05.10
Date of Receipt	31.05.10	31.05.10	31.05.10
Scheme	Private	Private	Private
Source	Surface Water	Treated Water	Water
Location	Inlet of WTP at Jotsoma	Outlet of WTP at Jotsoma	Outlet of Forest colony Service Reservoir

Sample Number			31824	31825	31826
PARAMETERS	A	B			
<b>PHYSICAL EXAMINATION</b>					
Appearance	-	-	C&C	C&C	C & C
Odour	-	-	None	None	None
Turbidity NTU	2.5	10	0.1	0.1	0.1
Total Dissolved Solids mg/L	500	2000	76	76	74
Electrical Conductivity (micro mho/cm)	-	-	104	104	102
<b>CHEMICAL EXAMINATION</b>					
pH	6.5 to 8.5	6.5 to 9.2	6.7	6.65	6.59
Alkalinity ph(as CaCO3) mg/L	-	-	0	0	0
Alkalinity Total (as CaCO3) mg/L	200	600	44	44	44
Total Hardness (as CaCO3) mg/L	200	600	45	42	43
Calcium (as Ca) mg/L	75	200	10	9	9
Magnesium (as Mg) mg/L	30	150	5	4	5
Sodium (as Na) mg/L	-	-	4	4	3
Potassium (as K)	-	-	1	1	1
Iron (as Fe) mg/L	0.1	1.0	0.01	0.01	0.01
Manganese (as Mn) mg/L	0.05	0.5	Nil	Nil	Nil
Free Ammonia (as NH3) mg/L	-	-	0.03	0.03	0.08
Nitrite (as NO2) mg/L	-	-	0.01	0.03	0.01
Nitrate (as NO3) mg/L	45	100	2	2	2
Chloride (as Cl) mg/L	200	1000	4	4	4
Fluoride (as F) mg/L	1.0	1.5	0.3	0.1	0.1
Sulphate (as SO4) mg/L	200	400	2	2	2
Phosphate (as PO4) mg/L	-	-	Nil	Nil	Nil
Tidy's test (as O) mg/L	-	-	0.9	0.9	0.9
Silica (as SiO2)	-	-	Nil	Nil	Nil

31824/31825/31826:-The Water is chemically POTABLE.

*Janya K/10/10*  
**CHIEF WATER ANALYST,**  
**TWAD Board,Chennai-5.**

Note:- 1.) A CPHEEO /BIS Std – Desirable limit: B. CPHEEO/BIS Std – Permissible limit in the absence of better alternative source.2) Results of Chemical Examination expressed in mg/L.3).No unit for pH 4).C&C-Colourless and clear 5)This report refers only to the sample actually subjected to measurements. 6) This report shall not be reproduced, except in full, unless written permission for the same has been obtained from the Chief Water Analyst, TWAD Board, Chennai-5.