

## Appendix –III

# Water Chemical Analysis Reports

1. Comparison of Chemical Analysis of Collected Samples
2. Photocopy of Laboratory Report

Report Type: Water Quality Monitoring  
Bacteriological Analysis  
Name of Lab: Public Health Laboratory, Thimphu  
Report No.: PHL/RW/26/2007/20 dated 31<sup>st</sup> January, 2007

3. Photocopy of Laboratory Report

Report Type: Test Report  
For testing compliance to IS13428:2005  
Name of Lab: SGS India Pvt. Ltd. Laboratory  
Behala Industrial Complex Ph II, 1st Floor  
620, Diamond Harbour Road, Kolkata 700 034  
Report No.: CA: GL: 7120001418 dated 20.02.2007

#	S Id	Location	Parameter																			
			pH mg/l	TDS mg/l	Color (Hazen)	Turbidity NTU	Nitrate (NO <sub>3</sub> ) mg/l	Nitrite (NO <sub>2</sub> )	Arsenic	Manganese (Mn) mg/l	Fluoride (F) mg/l	Chloride (Cl) mg/l	Sulphate SO <sub>4</sub> mg/l	Magnesium (Mg) mg/l	Calcium (Ca) mg/l	Sodium (Na) mg/l	Alkalinity HCO <sub>3</sub> mg/l	Chromium (Cr) mg/l	Iron (Fe) mg/l	D.O.mg/l	E.C.µ Ω	Sulphide (H <sub>2</sub> S) mg/l
1	3	Lowesa Punakha	7.3	168	2	<0.50	<0.50	<0.02		<0.02	0.4	14.29	11.74	7.67	29.97	18.48	164.04	<0.05	<0.10			<0.05
2	4	Koma Tshachhu (Lower Source)	7.84	242	2	<0.50	<0.50	<0.02		<0.02	1.69	23.23	21.83	7.19	32.34	89.85	206.57	<0.05	0.32			<0.05
3	6	Tiki Zampha	7.06	84	2	<0.50	<0.50	<0.02		<0.02	0.14	7.15	5.87	3.36	4.73	69.03	72.91	<0.05	<0.10			<0.05
4	7	Easuna Paro)	7.75	198	2	<0.50	0.89	<0.02		<0.02	<0.10	18.58	11.92	17.26	27.61	3.9	206.57	<0.05	<0.10			<0.05
5	0201	Ngelang Chiloo Sam Jongkhar	7.1	109.8	1	1	3.8	NT	NT	NT	NT	7.09	9.45	7.2	20	4.91	70	0.006	0.0277	8.3	154.4	
6	0203	25 Km stone N of from S/J	7.84	128	1	2	4.5	NT	NT	NT	NT	7.09	11.72	4.8	24	6.37	70	0.006	490	8.7	192.2	
7	2502	Dhapper Samtse	6.85	55	1	1	3.8	NT	NT	NT	0.42	14.18	6.79	4.8	4	2.4	20	0.005	0.1551	8.2	87.2	
8	2701	Simsar Pokhari Noon Pani, Spg	6.59	102	1	2	4.2	NT	NT	NT	NT	14.18	9.95	12	20	1.33	50	0.005	0.0697	8.6	167.2	
9	2801	Jigmecholing Village	5.97	61	1	2	4.17	NT	NT	NT	NT	11.3	10.97	4.8	4	2.19	20	NT	0.0201	6.9	92	
10	2802	Boxcutling Sarpang	7.75	148	1	1	4.51	NT	NT	NT	NT	7.09	9.55	NT	36	2.13	130	NT	0.287	7.9	232	
11	0701	Near C Adir of Tala Project	6.8	123	1	1	4	NT	NT	NT	NT	14.18	32.75	4.8	20	2.86	20	0.013	0.0379	8.6	187.2	
12	0201	Culvert 30/4 Lamsarang	7.96	123	1	2	3.54	NT	NT	NT	0.3	11.36	8.07	14.4	28	3.65	90	NT	0.1166	11	185	
13	2501	Bhote Dhara (samtse)	6.16	24	1	2	1.6	NT	NT	NT	0.1	7.1	8	12	NT	2.55	10	NT	0.1276	9.9	36	
14	2803	Aipoly Top spring	7.41	69	1	3	0.86	NT	NT	NT	0.2	7.1	21.56	16.8	12	0.35	20	NT	0.209	10	108	
15	2804	Aipoly Right Bank spring	6.4	69	1	2	0.93	NT	NT	NT	0.1	7.1	92.68	12	12	0.5	20	NT	0.0997	10	109	
16	0301	Dimula (Martaang)	7.62	319	1	2	0.43	NT	NT	NT	0.2	14.2	9.02	14.4	92	3	250	NT	0.0355	9.3	483	
17	0302	Dimula Bridge S/ Jongknar	7.58	462	1	2	0.04	NT	NT	NT	0.1	14.2	22.06	62.4	68	9	380	NT	0.0661	9.3	699	
18	0303	Marthang Bridge S/ Jongkhar	7.89	288	1	3	NT	NT	NT	NT	0.2	7.1	47.7	14.4	76	11	160	Nt	0.129	10	436	

Table 1 Comparison of Chemical Analysis of Collected Samples

