(as per audit report enclosed)

(as per audit report enclosed)

INCREMENTAL COST CALCULATION

SIMPLIFYING ASSUMPTIONS:

Existing pumps may still operate for the next 15 years at current maintenance cost

Existing air conditioner may still operate for the next 15 years with reasonable maintenance cost

8.7% Taken as the FIRR of the Project

VND **Exchange Rate** 21,500 0.043 USD/Kwh

Financing souce/item Amount Co-financing from Saigon Water Corporation (SAWACO) 1,500,000.00 Frequency converters (additional) 1,500,000.00 Financed under the Asian Clean Energy Fund 2,000,000.00 Converters 1,000,000.00 Frequency converters (\$700.000) Water pressure and quality calibration technology converter (\$300,000) Air conditioning replacement 500.000.00 Consulting Services 500,000.00

3,500,000.00 **Total investment**

O&M rate

Present value of Costs (Baseline) =

For Treated Water Pumps (financed by SAWACO) Existing Flow = 6400 Pressure = 49.5 Power = 1411 m Kw Installed 2004 Power Consumption per Annum 1.5 GWh/vear Savings 15% with Converters 1.3 GWh/year Initial Value

300,000 USD (each pump / assumed)
2% p.a / assumed for mechanical and equipment O&M rate

For Raw water pumps (financed by CEFPF) Existing Quantity Flow = 6840 m3.h Brand = WEIR - TECO Installed 2004 Pressure = 39.97 Pump - Motor m Power = 973 Kw (UK - TAIWAN) Power Consumption per Annum 1.5 GWh/year (as per audit report enclosed) Savings 15% with Converters 300,000 USD (each pump / assumed) 1.3 GWh/year (as per audit report enclosed) Initial Value

2% p.a / assumed for mechanical and equipment

2.6

For Air conditioner (chiller) (financed by CEFPF): Existing New 75 Kw 55 Kw GHG emission reduction

COP = 150,000 USD (each chiller for calculation O&M) O&M rate 2% p.a / assumed for mechanical and equipment

Baseline Energy Usage & Cost

Raw water pumps Air conditioner Investment Cost Other O & M Energy Other O & M Energy **Energy Cost Energy Cost** cost (US\$) Usage(GWh) (US\$) cost (US\$) Usage(GWh) 56.330 6.000 3.0 129.000 1.31 3.0 129,000 6,000 129.000 3.0 6.000 56.330 3.0 129,000 6,000 1.31 56,330 3.0 129 000 6 000 1.31 56 330 3.0 129,000 6,000 1.31 56,330 1.31 1.31 6 7 8 9 10 11 12 3.0 129.000 6.000 56.330 3.0 129.000 6.000 1.31 56.330 3.0 129,000 6,000 1.31 56,330 1.31 3.0 129.000 6.000 56.330 1.31 129,000 6,000 3.0 3.0 129.000 6.000 56.330 13 3.0 129,000 6,000 1.31 56,330 14 15 3.0 129 000 6 000 1.31 56 330 129,000 6,000 56,330 518,543.11 1,761,279.12 PVs 0.00 1,187,503.30 55,232.71

Alternative Energy Usage & Cost (Project)

Year	Investment Cost		Existing raw water pumps w/ converters and Monitoring			Air conditioner		
			Other O & M cost (US\$)	Energy Usage(GWh)	Energy Cost (US\$)	Other O & M cost (US\$)	Energy Usage(GWh)	Energy Cost (US\$)
	0	3,500,000.00	-	-	-	-	-	-
	1		-	2.6	111,800	10,000	0.96	41,280
	2		-	2.6	111,800	10,000	0.96	41,280
	3		-	2.6	111,800	10,000	0.96	41,280
	4		-	2.6	111,800	10,000	0.96	41,280
	5		-	2.6	111,800	10,000	0.96	41,280
	6		-	2.6	111,800	10,000	0.96	41,280
	7		-	2.6	111,800	10,000	0.96	41,280
	8		-	2.6	111,800	10,000	0.96	41,280
	9		-	2.6	111,800	10,000	0.96	41,280
	10		-	2.6	111,800	10,000	0.96	41,280
	11		-	2.6	111,800	10,000	0.96	41,280
	12		-	2.6	111,800	10,000	0.96	41,280
	13		-	2.6	111,800	10,000	0.96	41,280
	14		-	2.6	111,800	10,000	0.96	41,280
	15		-	2.6	111,800	10,000	0.96	41,280
	PVs	3,500,000.00	-		917,369.53	82,054.52		338,721.06
Present value of Costs (Alternative) =								4 838 145 10