

ANNEX E

WHOLE OF LIFE COSTS

Appendix E: Breakdown of the NISIP into Capital, Maintenance and Operating Cost Components

Nauru Infrastructure Priority Scheduling																				
Ref		Project	Estimated Capital Cost (\$m)	Estimated life cycle costs (\$m)	Status	Funding Source	2011 - 2038													
Capital							11	12	13	14	15	16	17	18	19	31	32	33	34	35
Committed and Funded																				
	W2	Solar Power RO Unit	3.00	3.36	F	PEC	3.36													
	W3	Supply and commissioning of 300kL RO Unit	0.60	0.67	C	AusAID	0.67													
	W1	EU Envelope B - Risk Reduction Project (C1-C6) & water tankers (1@10kl)	0.76	0.84	F	EU	0.84													
	P1	Jet Fuel Supply	0.40	0.44	F	AusAID	0.44													
	S1	Mainstreaming IWRM	0.30	0.33	F	GEF	0.33													
	T1	New Telecom Towers	0.15	0.17	C	AusAID	0.17													
	A1	PAPI System	0.10	0.11	F	AusAID	0.11													
	R1	Solar Street Lighting	0.30	0.33	F	ROC	0.33													
	R2	Fleet Augmentation	0.15	0.17	F	Azerbaijan	0.17													
	BA1	Police HQ	2.70	2.97	F	AFP	2.97													
	BA2	Police Youth Club	0.20	0.22	C	AusAID	0.22													
	BH2	Annual Refurbishment to Hospital	1.20	1.32	C	AusAID	0.42	0.30	0.30	0.30										
	BE1	Schools Annual Refurbishment Program	0.60	0.66	C	AusAID	0.21	0.15	0.15	0.15										
	Sub-total		10.46	11.58			10.23	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PV			10.54																
Priority	High																			
	M2a	New Quay wall - Scenario 2 & Anibare Mooring	14.40	18.00	P				9.00	9.00										
	BH3	New Hospital	12.00	13.80	P	U				6.90	6.90									
	S3	Pump Out "Alternative Disposal Options" Recycling Project	0.50	0.58	P	U		0.58												
	A2	Runway Resurfacing & Fencing	3.80	4.45	P	U		4.45												
	A3	Navalids -VOR	0.40	0.46	P	U	0.46													
	W4	Water Delivery - Additional Water tankers (3 x 4kl)	0.50	0.56	P	U	0.56													
	PW1	O&M spare parts store and workshop (shared with Utilities and Menen Hotel)	3.00	3.36	P	U		3.36												
	Sub-total		34.60	41.20			1.02	8.38	9.00	15.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PV			31.66																
Priority	Medium																			
	P2	Bulk Saltwater Emergency Response	1.00	1.14	P	U				1.14										
	S2	New lined Landfill & Compactor Trucks (BOT??)	1.40	1.68	I	U				1.68										
	S4	Location Saltwater flush (* contingent on P2)	0.30	0.38	I	U				0.38										
	S5	Hospital Hazardous Waste Incinerator	0.30	0.34	I	U				0.34										
	R3	Road Rehabilitation (* contingent on Runway resurfacing (A3) & (R4)	1.00	1.14	P					1.14										
	M1	Omega 65 tonne Crane	0.50	0.56	P	AusAID				0.56										
	BE2	Aiwo School Rebuilding and Disability Access	2.30	2.65	P	AusAID				2.65										
	Sub-total		6.80	7.88			0.00	0.00	0.00	0.00	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	PV			5.36																
	TOTAL		51.86	60.66			11.25	8.83	9.45	16.35	14.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL PV			47.56																
	Discount rate		8.0%																	

Maintenance only																				
Ref	Project	Estimated Capital Cost (\$m)	Estimated Maintenance Cost (\$m)	Status	Funding Source	2011 - 2038														
						11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	31.00	32.00	33.00	34.00	35.00	
Committed and Funded																				
W2	Solar Power RO Unit	3.00	9.00	F	PEC		0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.00				
W3	Supply and commissioning of 300kL RO Unit	0.60	1.80	C	AusAID		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00				
W1	EU Envelope B - Risk Reduction Project (C1-C6) & water tankers (1@10kl)	0.76	1.52	F	EU		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00				
P1	Jet Fuel Supply	0.40	0.40	F	AusAID		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00				
S1	Mainstreaming IWRM	0.30	0.30	F	GEF		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00				
T1	New Telecom Towers	0.15	0.30	C	AusAID		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00				
A1	PAPI System	0.10	0.20	F	AusAID		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00				
R1	Solar Street Lighting	0.30	0.30	F	ROC		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00				
R2	Fleet Augmentation	0.15	0.30	F	Azerbaijan		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00				
BA1	Police HQ	2.70	2.70	F	AFP		0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.00				
BA2	Police Youth Club	0.20	0.20	C	AusAID		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00				
BH2	Annual Refurbishment to Hospital	1.20	0.00	C	AusAID		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
BE1	Schools Annual Refurbishment Program	0.60	0.00	C	AusAID		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Sub-total		10.46	17.02			0.00	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.00	0.00	0.00	0.00	0.00
PV				7.74																
Priority	High																			
M2a	New Quay wall - Scenario 2 & Anibare Mooring	14.40	2.74	P						0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.00	
BH3	New Hospital	12.00	21.60	P	U						1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	0.00	
S3	Pump Out "Alternative Disposal Options" Recycling Project	0.50	0.50	P	U			0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00		
A2	Runway Resurfacing & Fencing	3.80	7.60	P	U			0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.00		
A3	Navaisds -VOR	0.40	0.80	P	U		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00				
W4	Water Delivery - Additional Water tankers (3 x 4kl)	0.50	1.43	P	U		0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00				
PW1	O&M spare parts store and workshop (shared with Utilities and Menen Hotel)	3.00	3.00	P	U			0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.00		
Sub-total		52.52	37.66			0.00	0.12	0.67	0.67	0.81	2.01	2.01	2.01	2.01	2.01	1.				

Operating only																			
Ref	Project	Estimated Capital Cost (\$m)	Estimated Operating Cost (\$m)	Status	Funding Source	2011 - 2038													
						11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	31.00	32.00	33.00	34.00	35.00
Committed and Funded																			
W2	Solar Power RO Unit	3.00	12.00	F	PEC	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00			
W3	Supply and commissioning of 300kL RO Unit	0.60	2.40	C	AusAID	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.00			
W1	EU Envelope B - Risk Reduction Project (C1-C6) & water tankers (1@10kl)	0.76	0.00	F	EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
P1	Jet Fuel Supply	0.40	0.80	F	AusAID	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
S1	Mainstreaming IWRM	0.30	0.00	F	GEF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
T1	New Telecom Towers	0.15	0.06	C	AusAID	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
A1	PAPI System	0.10	0.02	F	AusAID	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
R1	Solar Street Lighting	0.30	0.00	F	ROC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
R2	Fleet Augmentation	0.15	0.60	F	Azerbaijan	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00			
BA1	Police HQ	2.70	2.70	F	AFP	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.00			
BA2	Police Youth Club	0.20	0.40	C	AusAID	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00			
BH2	Annual Refurbishment to Hospital	1.20	0.00	C	AusAID	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
BE1	Schools Annual Refurbishment Program	0.60	0.00	C	AusAID	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Sub-total		10.46	18.98			0.00	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.00	0.00	0.00	0.00
PV				8.63															
Priority	High																		
M2a	New Quay wall - Scenario 2 & Anibare Mooring	14.40	10.08	P		-2.88	-2.88	-2.88	-2.88	1.44	1.44	1.44	1.44	1.44	1.44	0.00			
BH3	New Hospital	12.00	20.40	P	U	-1.20	-1.20	-1.20	-1.20	1.80	1.80	1.80	1.80	1.80	1.80	0.00			
S3	Pump Out "Alternative Disposal Options" Recycling Project	0.50	3.00	P	U	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.00			
A2	Runway Resurfacing & Fencing	3.80	0.00	P	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
A3	Navaid's -VOR	0.40	0.08	P	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
W4	Water Delivery - Additional Water tankers (3 x 4kl)	0.50	1.90	P	U	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00			
PW1	O&M spare parts store and workshop (shared with Utilities and Menen Hotel)	3.00	2.00	P	U	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00			
Sub-total		52.52	37.46			0.00	0.10	0.35	0.35	-2.53	-3.73	-3.73	-3.73	0.59	3.49	3.49	3.24	0.00	0.00
PV				7.40	</														