

## **ECONOMIC ANALYSIS–SUPPLEMENTARY TABLES**

1. **Economic Internal Rate of Return and Sensitivity Analysis.** The summary results and detailed computations are shown in Tables 1 to 5.
2. **Distribution of Net Economic Benefits and Poverty Impact Ratio.** The summary results and detailed computations are shown in Tables 6 to 9.





**Table 6: Distribution of Net Economic Benefits – Houayxay (KIP billion)**

**Integrated Urban Development**

Particulars	Financial PV	Economic PV	Econ PV less Fin PV	Government / Economy	Labor	Public	Total
Revenue / Benefits	-	99.0	99.0			99.0	99.0
Costs							
Equipment and Materials	26.7	18.9	(7.9)	7.9			7.9
Labor	10.2	7.2	(3.0)		3.0		3.0
Other Cost	14.0	9.9	(4.1)	4.1			4.1
Net Benefits	(50.9)	63.1	114.0	(50.9)			(50.9)
Gains and Losses				(38.9)	3.0	99.0	63.1

**Urban Roads and Drainage Upgrading**

Particulars	Financial PV	Economic PV	Econ PV less Fin PV	Government / Economy	Labor	Public	Total
Revenue / Benefits	-	71.9	71.9			71.9	71.9
Costs							
Equipment and Materials	46.2	32.6	(13.6)	13.6			13.6
Labor	17.6	12.4	(5.2)		5.2		5.2
Other Cost	24.2	17.1	(7.1)	7.1			7.1
Net Benefits	(87.9)	9.8	97.8	(87.9)			(87.9)
Gains and Losses				(67.2)	5.2	71.9	9.8

**Solid Waste Management**

Particulars	Financial PV	Economic PV	Econ PV less Fin PV	Government / Economy	Labor	Consumers	Total
Revenue / Benefits	13.2	15.5	2.3			2.3	2.3
Costs							
Equipment and Materials	9.7	6.8	(2.9)	2.9			2.9
Labor	4.2	2.9	(1.2)		1.2		1.2
Other Cost	6.9	4.9	(2.0)	2.0			2.0
Net Benefits	(7.6)	0.8	8.4	(7.6)			(7.6)
Gains and Losses				(2.7)	1.2	2.3	0.8

PV = present value

Source: PPTA Consultant.

**Table 7: Distribution of Net Economic Benefits – Houayxay (KIP billion)**  
**Integrated Urban Development**

Particulars	Financial PV	Economic PV	Econ PV less Fin PV	Government / Economy	Labor	Public	Total
Revenue / Benefits	-	117.1	117.1			117.1	117.1
Costs							
Equipment and Materials	75.1	53.0	(22.1)	22.1			22.1
Labor	28.6	20.2	(8.4)		8.4		8.4
Other Cost	39.3	27.7	(11.6)	11.6			11.6
Net Benefits	(143.0)	16.3	159.3	(143.0)			(143.0)
Gains and Losses				(109.3)	8.4	117.1	16.3

**Solid Waste Management**

Particulars	Financial PV	Economic PV	Econ PV less Fin PV	Government / Economy	Labor	Customer	Total
Revenue / Benefits	12.6	16.6	4.1			4.1	4.1
Costs							
Equipment and Materials	9.4	6.6	(2.8)	2.8			2.8
Labor	4.0	2.8	(1.2)		1.2		1.2
Other Cost	6.7	4.7	(2.0)	2.0			2.0
Net Benefits	(7.5)	2.5	10.0	(7.5)			(7.5)
Gains and Losses				(2.8)	1.2	4.1	2.5

PV = present value

Source: PPTA Consultant.

**Table 8: Poverty Impact Ratio – Houayxay (KIP billion)**

**Integrated Urban Development**

Items	Government / Economy	Labor	Public	Total
Gains and losses		3.00	99.02	102.02
Financial return	(38.91)			(38.91)
Benefits (Losses)	(38.91)	3.00	99.02	63.11
Proportion of poor	0.20	0.25	0.20	
Benefits to poor	(7.78)	0.75	19.80	12.77
Poverty Impact Ratio				0.20

**Urban Roads and Drainage Upgrading**

Items	Government / Economy	Labor	Public	Total
Gains and losses		5.18	71.86	77.04
Financial return	(67.21)			(67.21)
Benefits (Losses)	(67.21)	5.18	71.86	9.84
Proportion of poor	0.20	0.25	0.20	
Benefits to poor	(13.44)	1.30	14.37	2.23
Poverty Impact Ratio				0.23

**Solid Waste Management**

Items	Government / Economy	Labor	Consumers	Total
Gains and losses		1.22	2.33	3.55
Financial return	(2.71)			(2.71)
Benefits (Losses)	(2.71)	1.22	2.33	0.84
Proportion of poor	0.20	0.25	0.20	
Benefits to poor	(0.54)	0.31	0.47	0.23
Poverty Impact Ratio				0.27

Source: PPTA Consultant.

**Table 9: Poverty Impact Ratio – Luang Namtha (KIP billion)**

**Integrated Urban Development** 0

Items	Government / Economy	Labor	Public	Total
Gains and losses		8.4	117.1	125.6
Financial return	(109.3)			(109.3)
Benefits (Losses)	(109.3)	8.4	117.1	16.3
Proportion of poor	0.20	0.25	0.20	
Benefits to poor	(21.9)	2.1	23.4	3.7
Poverty Impact Ratio				0.23

**Solid Waste Mangement**

Items	Government / Economy	Labor	Customer	Total
Gains and losses		1.18	4.09	5.27
Financial return	(2.78)			(2.78)
Benefits (Losses)	(2.78)	1.18	4.09	2.49
Proportion of poor	0.20	0.25	0.20	
Benefits to poor	(0.56)	0.30	0.82	0.56
Poverty Impact Ratio				0.22

Source: PPTA Consultant.