8.	Inventory of Existing Facilities Condition in the Study A	rea

(Yawa River,Pawa-Burabod River)	
Inventory of Existing Facilities Condition in the Study Area (1/7)	
DT II 8	

RIVER SYSTEM	RIVER NAME &	ME & FACILITY NAME	FACILITY SIZE	Y SIZE	DATE	EXPECTED	EXISTING	CAUSE OF
	LOCATION		HEIGHT(m)	LENGTH(m)	CONSTRUCTED	EFFECT	CONDITION	FAILURE
YAWA River system	1.YAWA Legaspi city	a.Boulder dike	(4.00)	320	2-14-89	Fix flood flows course		
		b.Boulder dike	(4.00)	1,200	6-02-91	-op-		
		c.Concreting of boulder dike	(4.00)	1,250	11-01-89	-op-		
		d.Dike No.1,2,3,4	4.00	308	on-going	-op-	Broken part of structure damaged (about 50m)	Erosion on foundation of dike
		Dredging	4500	5000cu.m	1991			
	2.PAWA- BURABOD Legaspi city	a.Training levee	3.00	160	2-17-91	Control of MUD flow course	Missing structure in the field	
		b.Consolidation dam No.1	(2~3.00)	09	11-25-89	Prevent erosion of river bed	Partially left side bank eroded	Meander of flood flows
		c.Spur dike No.2	3.00	140	11-29-88	Control of MUD flow course	Structure of down stream damaged or destroyed	Erosion on foundation of dike
		d.Spur dike No.3	4.00	300	11-29-88	-op-	All structure destroyed	-op-
		e.Spur dike No.4	3.00	186	9-26-88	-do-		
		f.Spur dike No.5	4.00	280	12-24-83	op-		
		g.Spur dike No.6	3.00	280	01-11-84	-op-		
		h.Spur dike No.7	3.00	350	9-26-88	op-		
		i.Revetmen down stream	3.00	275	12-20-92	Prevent erosion of river bank		
		j.Road dike	3.00	260	12-20-92	Road		
		Dredging	3492	34929cu.m	1991			

*()=imaginary a value by field survey

DT II 8	Inventory of E.	Inventory of Existing Facilities Condition		in the Study Area (2/7)	rea (2/7)			(Budio River, Anoling River)
RIVER SYSTEM	RIVER NAME &	FACILITY NAME	FACILIT	CILITY SIZE	DATE	EXPECTED	EXISTING	CAUSE OF
	LOCATION		HEIGHT(m)	LENGTH(m)	CONSTRUCTED	EFFECT	CONDITION	DAMAGE
YAWA River system	3.BUDIAO	a.Boulder dike (stone pitching)	3.00	640	1990?	Control MUD flow course	All structure destroyed	Erosion on foundation of dike or impact of boulders
		Boulder dike No.2	(3.00)	200	4-5-91	-op-	ż	
		Boulder dike No.3	(3.00)	240	4-5-91	-op-	خ	
		b.Spur dike No.1	(down stream 3.00 up stream 5.00)	1,155	1986~1990	-op-		
		c.Spur dike No.2	(-op-)	2,380	1986~1989	-op-		
		d.Training levee (stone pitching)	(3.00)	520	1988~1989	-op-	All structure destroyed	Erosion on foundation of dike or impact of boulders
		e.Spur dike (down stream)	(3.00)	·	1989	-op-		
		Channelization	5125	5125cu.m	6-2-91			
YAWA River system	4.ANOLING Anoling Camalig Albay	a.Spur dike No.1	3.00	(200)	٤	Control MUD flow course		
		b.Boulder dike 1-B	3.00	250	10-28-87	-op-		
		c.Boulder dike 1-A	3.00	280	10-28-87	-op-		
		d.Spur dike No.4	3.00	200	3	-op-		
		e.Spur dike with conc.cribs	(3.00)	230	6-18-88	-op-		
		f.Training levee	3.00	009	5-10-88 6-14-88	-op-	Failure at 3 sites (total L⇔500m)	Erosion on foundation of levee
		g.Ground sill No.2	(2.00)	80	1-13-89	Prevent erosion of river bed		
		h.Spur dike	(3.00)	06	1-13-89	Control MUD flow course		
			() *)=imaginary a)=imaginary a value by field survey	/ey		

(Quirangay River, Masarawag River)	EXISTING CAUSE OF	CONDITION FAILURE								Missing structure in the field	-op-											
	EXPECTED	EFFECT (Control of MUD flow course	-op-	-op-	-op-	-op-	-op-	-op-	-do-	Prevent erosion of river bed	Control MUD flow course	-op-				Prevent erosion	200 10011110	Control MUD flow course	-op-	-op-	-op-
rea (3/7)	DATE	CONSTRUCTED	12-27-89	12-27-89	12-27-89	6-15-87	11-30-84	8-6-87	2-22-88	3-6-89	3-6-89	1990	1990	1990		1988	1988	1988	4-18-89	4-18-89	4-18-89	4-18-89
n in the Study Area (3/7)	Y SIZE	LENGTH(m)	655	440	400	520	(200)	180	400	120	170	300	06	77+8818cu.m		20	40	40	280	280	280	220
ondition in 1	FACILITY SIZE	HEIGHT(m)	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	(2.60)	(5.60)	13977+8		i	٤	٤	(5.00)	(5.00)	(2.00)	(2.00)
Inventory of Existing Facilities Condition	FACILITY NAME		a.Boulder dike No.3-B	b.Boulder dike No.3-A	c.Earth dike	d.Spur dike No.3-A	e.Spur dike No.2-A	f.Spur dike No.1-A	g.Training levee	h.Spur dike No.1-B	i.Consolidation dam No.1	j.Boulder dike No.2-B	k.Boulder dike No.3-B	Dredging		Ground-sill No.5-B	Ground-sill No.4-B	Ground-sill No.7-B	a.Spur dike No.8A	b.Spur dike No.7A	c.Spur dike No.6A	d.Spur dike No.5A
Inventory of Ex	RIVER NAME &	LOCATION													6.ТИМРА	7.MANINILA			Ş	Guinobatan	Albay	
DT II 8	RIVER SYSTEM		QUINALI(A) River system																			

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DT II 8	Inventory of E	Inventory of Existing Facilities Condition in the Study Area (4/7)	ondition in	the Study A	rea (4/7)		(Masarawag River,Og	(Masarawag River, Ogsong, River. Nasisi River)
RIVER SYSTEM	RIVER NAME &	FACILITY NAME	FACILITY SIZE	ry size	DATE	EXPECTED	EXISTING	CAUSE OF
	LOCATION		HEIGHT(m)	LENGTH(m)	CONSTRUCTED	EFFECT	CONDITION	FAILURE
QUINALI(A) River system	8.MASARAWAG Guinobatan Aibay	e.Boulder dike No.1A	(3.00)	280	2-25-91	-op-		
(up stream of the Bicol river)		f.Training levee	5.50	160	2-25-91	-op-		
		g.Boulder dike No.1	(3.00)	130	2-25-91	-op-		
		Spur dike	į	60+10	1992			
		Channelization	10993	09938cu.m	4-23-91			
	9.0GSONG	Spur Dike NO.7	٤	40	1992			
		Spur Dike NO.8	į	40	1992			
	10.NASISI	a.Consolidation dam No.1	5.00	88	8-16-83	Prevent erosion of river bed	Base of dam eroded	Erosion of down stream river bed from dam
		b.Ground sill No.1	3.00	180	3-7-89	-op-		
		c.Ground sill No.2	3.00	(180)	11-11-89	-op-		
		d.Ground sill No.3	3.00	205	2-4-91	-op-		
		e.Consolidation dam No.2	5.00	150	4-15-88	-op-	Missing structure in the field	
		Spur dike	į	194	1992			
QUINALI(B)	11.BUANG							
River system	12.QUINALI(B)							
	13.SAIV- VICENTE	a.Boulder dike No.1	(4.00)	115	12-22-90	Fix flood flows course		
		b.Boulder dike No.2	(4.00)	115	12-22-90	-op-		
		c.Boulder dike No.3	(4.00)	09	3-10-92	-op-		
		d.Boulder dike No.4	(4.00)		3-10-92	-op-		
			()*	=imadinary a	-imaginary a value by field survey	Λe		

*()=imaginary a value by field survey

(San Viciente River, Ar imbay River, Padang River)
Inventory of Existing Facilities Condition in the Study Area (5/7)
DT II 8

DIVED CVCTEM	DIVED NAME &	EACII ITY NAME	FACIL	EACII ITY SIZE	DATE	EXPECTED	FXISTING	CALISF OF
NIVEN SI SI EM	LOCATION		HEIGHT(m)	LENGTH(m)	CONSTRUCTED	EFFECT	CONDITION	FAILURE
QUINALI(B) River system	13.SAN- VICENTE	e.Spur dike No.1	(4.00)	240	٤	-op-		
		f.Spur dike No.2	(4.00)	240	٤	-op-		
		Dredging	548	488cu.m	1991			
ARIMBAY River system	14.ARIMBAY	a.Concrete rivetment	(2.50)	09	2-15-88	Prevent erosion of river bank		
		b.Spur dike No.1	(3.00)	420	12-18-90	Control MUD flow course		
		c.Spur dike No.2	(3.00)	300	12-18-90	-op-		
		d.Spur dike No.4	(3.00)	400	11-19-88	-op-		
		e.Spur dike No.5	(3.00)	250	88	-op-		
		f.Spur dike No.7	(3.00)	450	11-30-89	Control MUD flow course		
		g.Spur dike No.8	(3.00)	360	4-18-89	-op-		
			(3.00)	80	7-26-92	-op-		
		h.Spur dike No.9	(3.00)	(360)	4-18-89	-op-		
		i.Consolidation dam	٤	70	4-18-89	Barangay road		
PADANG River system	15.PADANG	a.Spur dike No.1	(3.00)	(1,100)	~1990	Control MUD flow course		
		b.Spur dike No.2	(3.00)	(800)	~1991	-op-	Part of structure damaged (about 20m)	Erosion on foundation of dike
		c.Spur dike No.3	(3.00)	(420)	1987~1989	-do-	All structure destroyed	-op-
		d.Spur dike No.4	(3.00)	(260)	1987~1989	-op-	-op-	-op-
		e.Spur dike No.5	(3.00)	(260)	1987~1990	-op-	5	
		f.Spur dike No.6	(3.00)	160	7-24-89	-op-	ż	
		g.Spur dike No.7	(3.00)	(540)	1987~1990	-op-	ż	

*()=imaginary a value by field survey

(Basud River)	CAUSE OF	FAILURE			Erosion on foundation of dike or impact of boulders	,	-op-	*		Erosion on foundation of dike or impact of boulders	-op-	-op-								Apron damaged by impact of boulders and erosion down stream	
	EXISTING	CONDITION			All structure destroyed	,	-op-	,		All structure destroyed	-op-	-op-								Prevent erosion Over-flow section of of river bed dam destroyed	
	GEXPECTED	EFFECT	Control MUD flow course	4	-op	4	-op	*	-op-	Control MUD flow course	-op-	-op-	-op-	-op-	-op-	1	-op-	•	-op-	Prevent erosion of river bed	бе
rea (6/7)	DATE	CONSTRUCTED	1985	8-22-8	1985	8-17-89	1985	8-17-89	1985	1992	1992	1986	6-2-88	6-2-88	1992	6-2-88	1992	6-2-88	٤	4-17-91)=imaginary a value by field survey
in the Study Area (6/7)	Y SIZE	LENGTH(m)	132	400	170	50	200	132	84	55	65	100	370	180	55	200	65	100	(100)	(20)	=imaginary a v
	FACILITY SIZE	HEIGHT(m)	(4.00)	4	(2.00)	*	(2.00)	"	(3.00)	?(3.00)	?(3.00)	?(3.00)	(4.00)	(4.00)	(4.00)	/	(4.00)	*	(4.00)	(5.00)	*()*
Inventory of Existing Facilities Condition	FACILITY NAME		a.Spur dike No.2	*	b.Boulder dike No.1 (stone pitching)	/ (upstream)	c.Boulder dike No.2 (stone pitching)	,	d.Boulder spur dike No.1	e.Boulder dike No.5	f.Boulder dike No.6	g.Boulder dike No.8	h.Spur dike No.1	i.Spur dike No.4	j.Spur dike No.5	,	k.Spur dike No.6	,	I.Spur dike No.9	m.Consolidation dam	
Inventory of E	RIVER NAME &	LOCATION	16.BASUD							ı											
DT II 8	RIVER SYSTEM		BASUD River system																		

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DT II 8	Inventory of Ex	Inventory of Existing Facilities Condition in		the Study Area (7/7)	a (7/7)		(Ba	(Basud River, Bulawan River)
RIVER SYSTEM	RIVER NAME &	FACILITY NAME	FACILI	FACILITY SIZE	DATE	EXPECTED	EXISTING	CAUSE OF
	LOCATION		HEIGHT(m)	LENGTH(m)	CONSTRUCTED	EFFECT	CONDITION	FAILURE
BASUD River system	16.BASUD	n.Spur dike of up stream from dam(Right bank)	(5.00)	(100)	4-17-91	Control MUD flow course		
		o.Spur dike of down stream from dam(Left bank)	(2:00)	(210)	4-17-91	-op-		
		p.Spur dike of1.5km up stream from dam(Left bank)	(3.00)	(100)	7	-op-	All structure destroyed	Impact of boulders
		dredging	1132	327cu.m	1991			
		channel zation (upstream)	9797	9797cu.m	1992			
BULAWAN River system	17.BULAWAN	a.Spur dike No.1	(2.00)	(006)	~1990	Control MUD flow course	rart of up stream damaged or	Impact of boulder
		b.Spur dike No.2	(2.00)	(1,300)	~1991	-op-		
		i.Consolidation dam	(2.00)	(52)	7-10-89	Prevent erosion of river bed	Foundation of dam eroded	erosion of down stream river bed from dam
		j.Revetment	(3.00~ 4.00)	(100)	ż	Prevent erosion of river bed		

 ?
 80
 7-10-89

 40
 11-5-92

 *()=imaginary a value by field survey

I.boulder dike No.3

k.boulder dike

1987~1990

1989~1991

(240) (260) (203)

e.Spur dike No.3 f.Spur dike No.4 1987~1992

 ~ 1991

g.Spur dike No.5 h.Spur dike No.6