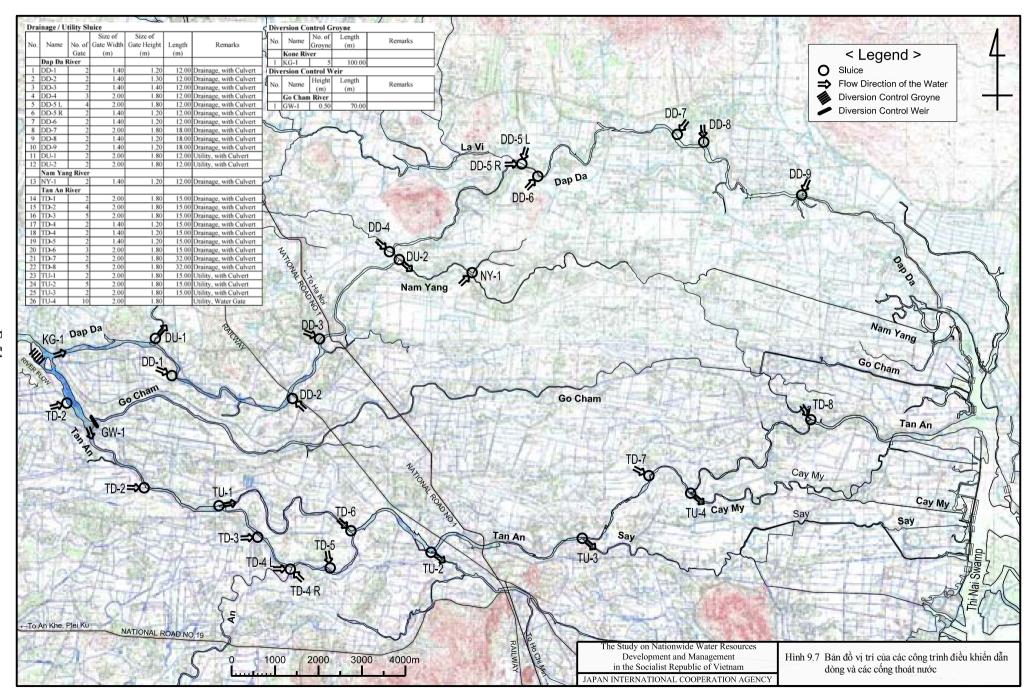


The Study on Nationwide Water Resources
Development and Management
in the Socialist Republic of Vietnam

Hình 9.6

Mặt cắt ngang điển hình của kênh tưới

JAPAN INTERNATIONAL COOPERATION AGENCY



Hình 10.1 Kế hoạch thực hiện chung theo khu vực

Description	2002	2003	2004	2005	2006	2007	2008	2009	2010	Year 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1. Study on Nationwide Water Resources																			
Kone River Basin Master Plan	_																		
Kone River Basin Feasibility Study		_																	
, ,																			
2. Dinh Binh Reservoir Project																			
2.1 Financial Arrangement																			
2.2 Approval of Project and Arrangement by GOV																			
2.3 Procurement of Consultant2.4 Engineering Services (Basic Design,			-																
Detailed Design and Supervision)																			
2.5 Pre-qualification Tendering					_														
2.6 International Competitive Bidding					_														
2.7 Land Acquisition and Resettlement	1				-														
2.8 Dinh Binh Reservoir Project(Concrete Dam)																			
2.9. Relocation Road	<u> </u>																		
3. Flood Control Facilities																			
3.1 Financial Arrangement																			
3.2 Approval of Project and Arrangement by GOV																			
3.3 Procurement of Consultant								-											
3.4 Engineering Services (Basic Design, Detailed Design and Supervision)																			
3.5 Pre-qualification Tendering																			
3.6 International Competitive Bidding																			
3.7 Land Acquisition and Resettlement 3.8 Flood Control Facilities																			
4. Irrigation and Drainage Facilities	<u> </u>																		
4.1 Financial Arrangement	-																		
4.2 Approval of Project and Arrangement by GOV																			
4.3 Procurement of Consultant4.4 Engineering Services (Basic Design,			-																
Detailed Design and Supervision)																			
4.5 Pre-qualification Tendering									_										
4.6 International Competitive Bidding					_				_										
4.7 Land Acquisition and Resettlement					_														
4.8 Irrigation and Drainage facilities																			
5. Domestic and Industrial Water Supply																			
5.1 Financial Arrangement				_															
5.2 Approval of Project and Arrangement by GOV				_		_								-		_			
5.3 Procurement of Consultant				-										-					
5.4 Engineering Services (Basic Design, Detailed Design and Supervision)				_															
5.5 Pre-qualification Tendering					_										_				
5.6 International Competitive Bidding						_										_			
5.7 Domestic and Industrial Water Supply						_													

Hình 10.2 Kế hoạch thực hiện chung theo công trình

Description	2002	2003	2004	2005	2006	2007	2008	2009	2010	Year 2011	2012	2013	2014	2015	2016	2017	2018	2019	20
Dinh Pinh Dasawaiu Pusicat	2002	2003	2001	2000	2000	2007	2000	2007	2010	2011	2012	2015	2011	2010	2010	2017	2010	2017	Ī
. Dinh Binh Reservoir Project 1.1 Preparatory Works	+																		H
1.2 River Diversion						-	•	•											
1.3 Dam - Dam Excavation	+																		H
- Foundation Treatment	1																		Г
- Concrete Dam						-													
1.4 Hydromechanical Works 1.5 Hydropower	+					****													H
- Powerhouse																			
- Generating Equipment - Substation	+							***											<u> </u>
1.6 Relocation Road	t																		Г
1.7 High Voltage Line										I									
1.8 Financial Arrangement 1.9 Land Acquisition and Resettlement																			<u> </u>
1.10 Engineering Services by Consultants	†																		Г
2. Flood Control Facilities																			
2.1 Preparatory Works	t										_								Т
2.1 Thi Nai Swamp																			
- Sea Dyke - Improvement of Sluice Gates	+										Ξ								H
- Improvement of Spillway											ı		•						
- New Construction of Spillway	Ļ																		Ē
2.2 Dap Da River - Dyke	1				 			-		-									H
- Bridges	L										Ξ	E			E				
- Side Overflow Spillway	\perp											L	_		L				Ē
- New Construction of Sluice Gates - Bank Protection works	 										=								+
- Reconstruction of Irrigation Weir	匸										Ξ	E							
2.3 Go Cham River	\perp																		Ē
- Dyke - Bridges	 										Ξ								H
- Side Overflow Spillway	T																		Γ
- New Construction of Fixed Weir	\perp										_		•						Ē
- Reconstruction of Irrigation Weir - Bank Protection works	 												_	-					H
2.4 Tan An River	t^-																		Г
- Dyke	<u> </u>																		L
- Bridges - Side Overflow Spillway	+																		H
- New Construction of Sluice Gates	t																		
- Improvement of Irrigation Weir											-								
- Bank Protection works 2.5 Nam Yang River	+																		H
- Dyke	t										_								Г
- Bridges											-		-						L
- New Construction of Sluice Gates - Bank Protection works	╁										Ξ		_						H
2.6 Ca My River	t^-																		
- Dyke											_	-							L
- Bank Protection works 2.7 Kone River	+																		H
- Groyne												-							
2.4 Financial Arrangement 2.5 Land Acquisition and Resettlement	╄									_									\vdash
2.6 Engineering Services by Consultants	+									••••	••••	• • • •	••••						Г
3. Irrigation and Drainage Facilities																			Г
3.1 Preparatory Works	+					_													H
3.2 Van Phong Weir																			
- Weir	-					_				_									L
- Scouring Sluice and Intake Facilities 3.3 Rehabilitation Works of Existing Weirs	+																		
- 7 Weirs						_													Ī
- 1 Weir (Loc Giang) 3.4 Construction Works of New Weirs	\vdash					_													H
- 1 Weir	 		-							_									Г
3.5 Construction Works of New Earthfill Dams																			
- 1 Earthfill Dam (Phu Tai) - 10 Earthfill Dams	+	-	-		-	-				_		L			L				H
3.6 Existing Reservoirs to be Rehabilitated	t																		
- 18 Reservoirs						_													
3.7 Construction of New Pumping Station - 6 places						_													Ì
3.8 Improvement of Existing Function	t																		Г
- 15,700 ha						_													Ē
- 8,700 ha 3.9 Rehabilitation and Improvement for Non-	+	-	-		-	-			<u> </u>	-		-			-	-	H		H
Function Area																			Γ
- 3,200 ha	\vdash					Ξ	Ė		Ē	Ħ									Ë
- 3,500 ha 3.10 Construction for New Development Area	\vdash								_										Г
- 17,800 ha						_													Ī
- 2,600 ha	\bot					=	F	E							L				Ė
- 3,000 ha 3.11 Financial Arrangement	+-																		-
3.12 Land Acquisition and Resettlement	匸	••••	••••	••••	∷														Г
3.13 Engineering Services by Consultants					••••		• • • •	• • • • •	• • • • •	••••		• • • • •		••••	• • • •	• • • • •	• • • • •		Ē
1. Domestic and Industrial Water Supply																			l
4.1 Preparatory Works						-										-			Ξ
4.2 Raw Water Intake and Pre-treatment																			1
Units 4.3 Booster Pumping Stations and Ancillaries	+-	-	_		<u> </u>	-			-	_		_				-			H
4.4 Elevated Storage reservoirs	t								-										Г
4.5 Pipelines (Primary, secondary and tertiary Mains)	$ldsymbol{\square}$																		Ξ
4.6 Metered House Connections	₩	-			L	-													H
4.7 Financial Arrangement																			

Note: Marked with..... means design and manufacturing period.