CONSTRUCTION PLAN AND COST ESTIMATE

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CHAPTER 7

BILL OF QUANTITIES

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N 9576570

CONSTRUCTION OF AN AND COST (STREAM)

	SPEC. NO.			CCA AU3	GS:7.05	GS.14.04		02.9.06	QS.9.06	65.9.06			X. K	TS. 2.10		TTS. 2.10	75. 2.10	TTS. 2.10	TS.2.10		75.2.10	TS. 2.10	TS, 7.09	TS. 12.10	TS, 7.09	75, 7.09	74.70		10	21.7			12. 3. 2	10.0	15.230		12:210	W. 35	75, 324	TS. 324	TS. 5.07	TTS. 5.07	TS.324	TS. 3.24	TS. 2.10		TS. 2.10			TS. 1.04		TS. 4.14
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	L L	(RP.)							•																															· · · ·			1									
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	SWALLON		CENERAL	ILIZATION AND DEMOBILIZATION	UBLISHMRNT	OCATION OF EXISTING FACILITIES	LOGICAL INVESTIGATION	Hand Auger	Mechanical Boring	Exploratory Excavation	CHANNEL AND DIKE WORKS	PARATION WORKS	Coffering and Dewatering	caring and Grubbing	CHANNEL EXCAVATION	Dredging (Rivermouth - PE 14)		Presvation (Common)	Presention (Floorings) Channel)	PARTH DIKE WORKS	Sminning of Ton Soil	Burbarburget	Control Determines	Maintenance Marker Post	Back Control (Check A)	Durac Louiso (Liudo A) A subalt Teansmaan Rece /A T R)	Apriate A reaching the Date (V-4D)	SUD-BLUE COURC (LINK C)		Excavation (Continuom)	Wet Stone Massary (1:3) for Kevernent		Eastic Joint Filler, 10 mm thick	Water Stop, 30 cm wide	I.	FLOOD RETAINING WALL (PE17L-6.5m to PE18+20m)	Ercavation (Common)	Concrete, Type CI	Concrete, Type E	Portnwork FW1	Supply and Driving of PC Sheet Piles, L=5.0 m	Log Pile, Dia. 150mm, L=4.0m	Plastic Joint Filler. 10 mm thick		Backfill with Selected Soil	FILLING ON RIVER BANK	Soil Filling	SLOFE AND RIVERBED PROTECTION WORKS	ITARATION WORKS	Coffering and Dewatering	DDING AND DIKE	Solid Sodding
8	1000		CENE	MO	LSH	REI) 190 1				CHAN	PRI			5					Vä									€ - 							E C							-			IM -		IOTIS .	24		S.	
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		IITEM NO.	<	R.	2	2	\$	A4.1	A4.2	A43	2	81	81.1	B1.2	8	122	6 01	5.43		20			1			<u></u>	15.0	1.01	¥	B4.1	B4.2	B43	F4.4	14.5	B4.6	ß	RS.1	BS.2	85.3	P5.4	P5 5	R5.6	R57	B5.8	15.0 1	93	1.44	U	Б	C T	៨	ชี

1	LOCATION BQ-ITEMS	UNIT QUNATTITY UN	UNIT COST AMOUNT (RP) (RP.)	UNIT COST (RP.)	AMOUNT (RP.)	TOTAL	SPEC. NO.
-	Check Sodding for Retarding Channel and Diversion Weirs	,e	-	-			TS. 4.14
	Sprigeing			• •			12.4.14
	Permetian Common	Ê					175.2.10
	Backfill with Scienced Soil		-				TS. 2.10
1 1	Chusher Run Bedding						TS. 4.34
1 1	Wet Stone Masonry (1:4) for Revenuent	.					TS. 4.14
1 1	Cement Mortar Plasterine	a ^z e					75. 4.14
	Concrete. Type CT	Ê					TS. 324
	Reinforcing Steel Bar	E,					TS. 3.24
1	Portswork PW1	7					TS 324
- I 	Weep Hole. Dia. S0 mm	106					TIS. 4.14
	1 of Pite Dia, 150 mm, 1 = 3.0m						TS 5.07
1	Loe Pile. Dia. 150 mm. L=2.0m	5					TS, 5.07
	Plastic Joint Filler 10 mm thick	1 1 1					TS 324
Ī	Fabrica Manuer			-			
							10.1
-	Gabion Cylinder	E	-				TS. 4.14
1 1	Cobble Stone Filling	- 					TS. 4.14
	Palm Fiber Filter	1 m ² · ·					TS. 4.14
1	GABION TYPE FOOT PROTECTION		-				
	Cobble Stone Filling	ц,					TTS. 4.14
	Cabion Mattress	(m)					TTS. 4.14
	REVETMENT - GABION CYLINDER TYPE]				
	Excavation (Common)	- m	· · · · ·				TS. 2.10
	Cabion Cylinder						TTS. 4.14
	Cobble Stone Filling	6			-	2	TS. 4.14
	Log Pile, Dia. 150 mm. L=2.0m	[m]					TS. 5.07
	Paim Fiber Filter	m ²					TS. 4.14
	REVETMENT - GABION AND RIPRAP / RIPRAP TYPE						
	Cabion Cylinder	6					TTS. 4.14
	Roulder Rivean. (300mm - 500mm)	î					TS. 4.14
	Routher Rivers (200mm - 300mm)	Ê	-				117 34
	GROIN (PH.R.TYPE)						
	RC Pilex 200mm x 200mm including Driving	E					TS 12.10
							100 500
	Defendent Viet De-	1			-		
					╏		P. 5. 0
	Fornework FWI	-	-				TS. 3.24
	Roulder Rigrap, (300mm - S00mm)				-		11.4.14
PE129+43	PROTECTION WORKS FOR TITI RUNTUH BRIDGE (PE129-43m)	1					
	Excavation (Common)	Ê	-	· · · · · · · · ·			TS.2.10
	Rackfill with Selected Soil						TS. 230
	Parchase Dura Baddian		·				
		3 8					
					•		10.0.61
-	Wet Stone Masonry (1:4) for Kevcinetit	E					12.4.14
	Comont Mortar Plastening	m ²	· 				TS: 4.14
	Concrete, Type C1	e e	-	•			TS. 3.24
	Concrete, Type D	, m m				•	TS. 3.24
	Reinforcing Steel Bar	kg	_				TS. 3.24
	Formwork FW1	120 ²			-		TS. 324

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	SPEC. NO.		12.5	TC 11	12.414	TS. 4.14	11 2		TYC 210	75 2.10		TS. 5.07	118.ST	101 54	1.0 July	10. 3.45	12.3.K		13.324	TS-324	TS. 3.24	12.414	7.414	75.4.14	13.4.14	TrS. 4.14	11-1-1		017.51		175.4.14 The K M	10.0.01		TS AN	101 344	12 25 14	51 X			A.C. C.	12.4.14	TIS. 4.14	13.424	TS. 4.14	016 940		13. 2.10		101.00	10. 524
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			Formwork FW2		Weep Hole, Dia, 30 mm, including rither Cloud	Cabler Collector		Cobble Stone Filling BAIT WAY BUITCH		Excertation (Lottimon)	Backfull with Scienced Soul	Escerti with Growel			Concrete, Type CI	Concrete, Type D	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Formwork FW2	Elastic Joint Füher, 10 mm thick	Weep Hole, Dia. S0 mm	Cobble Stone Filling	Cabion Mattress	Gabion Cylinder	Crusher Run Bedding	Wet Stone Masoury (1:4) for Revenuent	PROTECTION WORKS FOR NATIONAL ROAD BRIDGE	Excavation (Compon)	Crusher Run Bedding	Backfüll with Gravel	Log Price, Dia. 150 mm. L=3.0m		Centert Mortar Plastering	ЧŁ –	CORRECT LYPE CI	Actineticity Stock (201			Elastic Joint Filler, JU mm thick	Weep Hole, Dia. 50 mm	Gabion Mattress	Gabion Cylinder	Cobble Stone Filling				Durble Start Deddar	Kubole Store require	Concrete, Type E
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	BQ-ITEMS					places)						place)				a :	tevetment		. X	(place)					•			5			1	jes)						Ċ,	(place)			8				
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		Plastering	Gabion Mattress	Gabion Cylinder	Cobble Stone Filling	PPROACH STR	Excavation (Loumon)		Concrete, 17/2 C	Formwork FW1	Crusher Run B	APPROACH STEPS, TYPE PC (place)	Excavation (Common)	Log Pile, Dia.	Concrete, Type D	Pormwork FW3	Wet Stone Mas	Crusher Run Bedding	Eastic Joint Fi	APPROACH STEPS, TYPE PD (place)	Excavation (Common)	Backfill with Selected Soil	Log Pile, Dia.	Concrete, Type CI	Concrete, Type D	Remunde FW1	Chusher Run Beddine	Eastic Joint F	Gabion Mattress	Gabion Cylind	Cobble Stone Filling	NANTENANC	Excavation (Common)	Backfill with Selected Soft	Concrete, Type C2	Formwork FW1	Crusher Run Bedding	Eastic Joint Filter, 10 mm thick	APPROACH ST	Excavation (Common)	Backfill with:	Log Pile, Dia.	Concrete, Type C2	Concrete, Type D	Reinforcing Steel Bar	Formwork FW1
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SPEC. NO.	TS. 3.24	75.4.14	TS 4.14		TS. 2.10	TS. 2.10	TS. 324	TS.324	TS. 4.14	TS. 3.24		TS. 2.10	TS. 2.10	TS. 5.07	TS. 5.07	TS, 3.24	TIS. 3.24	75.324	TS. 4.14	75.4.14	13.324	TS. 324	TS. 7.09	TS. 4.14	TS. 4.14	TS. 12.10	17, 17, 10
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BQ-LTEMS	Pastic Joint Filler, 10 mm thick	Gabion Mattress	Cobble Stone Filting	APPROACH STEPS, TYPE DB (places)	Excavation (Common)	Backfill with Selected Soil	Concrete, Type C2	Formwork FW1	Crusher Run Bedding	Elastic Joint Filler, 10 mm thick	ar	Excavation (Common)	Backfull with Scienced Soil	Supply and Driving of PC Sheet Plice, Le4.0 m and 4.75 m	Log Pile, Dia 150mm, L=4.0m	Concrete, Type C1 for Base Concrete and Top Concrete	Concrete, Type C2 for Step	Concrete, Type B	Wet Store Masoury (1:3) for Gravity Type Wall and Sieps	Crusher Run Redding	Reinforcing Steel Bar	Forntwork PW1	Concrete Block Pavement for Landing Stage		Cablen Cylinder	Mooring Post, Block Type	Manual Date Dila Tana
TOCATION	9	6	6	10	10	10	10	10	10	10	PE14+57								i i	_							
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TTEM NO.	6 6C	01.00	11.60	D10	D10.1	D10.2	D10.3	D10.4	D10.5	010.6	LEG	1110 J	D112	D11.3	D114	211G	911Q	211.7	D11.8	D11.9	D1.110	LITIO	21.112	C1.110	51.1td	21.11G	71.11

SPEC. NO.			TS. 1.04	TS. 2.10		TS.2.10	TS. 210	TS. 5.07	TS.4.14	TS: 4.14	TS. 4.14	TS. 4.14	TS, 324	.324	TS. 3.24	TS. 3.24	TS. 3.24	TTS. 324	TS: 3.24	TTS. 3.24	. 12.10	T 5. 6.09	Ī	TS.2.10	75.2.10	TS.4.14	TS. 4.14	TS. 4.14	TS. 5.07	TS. 5.07	TS. 3.24	TS. 3.24	TS. 3.24	TS. 3.24	TS. 324	13.3.24	12. 3.24	12.324	17.97 1	5. 4.07	000 K		TS. 2.10	TS. 2.10	TS. 4.14	TS: 4.14	TS: 4.14	S. 5.07	
TOTAL			21	2L		8	<u>8</u>	<u>81</u>		F	22	F	1	: F	2	Ę	2L	£	2	84	£	EF.	~	<u>¥</u>	E	¥.	<u>r</u>	£	<u>F</u>	<u>4</u>	<u>2</u>	<u> </u>	H I	4		51							E	x	1	H	H	<u>F</u>	
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NQ.		PREPARATION WORKS FOR DRAINAGE WORKS		Ccaring and Crubbing	00 DRAINAGE OUTLET SLI, PIPE CULVERT WITH FLAP GATE	Pycavation (Common)	Backfill with Selected Soil	Log Pile, Dia. 150mm, L=3.0m	Crusher Run Bedding	Wet Stone Masoury (1:4) for Revenuent	Concert Mortar Plastering	Weep Hole, Dia. S0 mm	Dowel Bars, Dia. 19 mm, L-600mm	Water Stop, 30 cm wide	Condrette, Tyrye C2	Concrete, Type E	Reinforcing Steel Bar	Fornwork FW1	Formwork PW2	Eastic Joint Filler, 10 mm thick	RCP/pc, D=600mm	Supply and Installation of Flap Gate, Dia 600 mm	-+	Excavation (Common)	Backfill with Scienced Soil	Crusher Run Bedding	Wet Stone Masonry (1:4) for Reventioni	Cement Mortar Plastering	Supply and Driving of Stoel Sheet Piles, Type II	Log Pile, Dia 150mm, L-3.0m	Concrete, Type C1	Concrete, Type C2	Concrete, Type B	Reinforcing Steel Bar	Formwork PW1	Formwork PW2	DOWEL BUTS, U.A. 19 mm, 1.0 m iong	Eastic Joint Filler, 10 mm thick	Water Stop, 30 cm wroe	rangrau, Galvanezeg Sicci Mipe	Carvanized Steel Labort Viewice and Texailation of Steel Stide Gates (M=1 Sm B=2 0m × 2).	DRAINAGE OUTLET SIJ. BOX CULVERT WIT	Breavation (Common)	Backfill with Selected Soil	Crusher Run Bedding	Wet Stone Masoury (1:4) for Reventment	Cement Mortar Plastering	Supply and Driving of "Steel Sheet Piles, Type II	
LOCATION					00+SXE4																		PE95+35						-													P2138+55							
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SPEC. NO.		TTS. 3.24	TS. 324	TS. 3.24	TS.3.24	17. 32k	12.324	TX 324	TK 324	175. 609	TS. 6.00	TS. 9.09		TS. 2.10	TS. 2.10	75.4.14	12.414	414	115, SU	76.6 944		TS.3.24	175, 3,24	TS. 3.24	75.324	12.6.2T	TS. 324	T3: 324	TS. 324	TS. 6.09	TS. 6.09	TS. 9.09		TS. 2.10-	TS. 2.10	+1+ SL	117 ST	TS. 4.14	15.324	15.324	12.324	12. 3.2v	20 4 3 F	TS, 3.24		75.2.10	TS. 210		117 34	r, r		N.324
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 | Formwork FW2 | DRAINAGE OUTLET, PIPE CULVERT D=600 x 1 (places) | Excavation (Common) | Backfill with Selected Soil | Concrete, Type C1
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		N BQ-ITEMS	Concrete, Tvpc C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Portmonth PW2	mm	DRAINAGE OUTLET, PIPE CULVERT D=1000 x 2 (places)	Excavation (Common)	Backfill with Selected Soil	Wet Stone Masoury (1:4) for Revetment		Concrete, Type B	Reinforcing Steel Bar	Formwork I'W'I	Formwork FW2	RCPipe, D-100mm	DRAINAGE OUTLET, PIPE CULVERT D=1000 x 1, (places)		Backfill with Selected Soil	Concrete, Type C1	Concrete, Type B	Reinforcing Steel Bar	Forthwork FW1	Formwork FW2		DRAINAGE OUTLET, OPEN DITCH TYPE (places)	Pacavation (Compon)	Backfill with Sciected Soil	Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar		DRAINAGE DITCH CONNECTING TO DRAINAGE OUTLETS	Excavation (Common)	Backfill with Gravel	Crusher Run Bedding	Wet Stone Masonry (1:4) for Revetment	Concot Mortar Plastening	Concrete, Type C2	Concrete, Type B	Reinforcing Steel Bar	i 1	PARTH DRAINAGE CHANNEL (PESR+90m to PE32)		Suripping of Top Soil		DRAINAGE SIDE DITCH ALONG EARTH DIKE	Clearing and Grubbing	Excertion (Common)
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	A	Sand Bedding	Rackfill with Sciented Soil	Backfill with Gravel	Wet Stone Masoury (1:4) for Revenient	Cement Mortar Plastering	Crusher Run Bedding	Concrete, Type C2	Reinforcing Steel Bar	Formwork PW1	Wet Stone Masonry (1:3) for Revenuent	DRAINAGE SIDE DITCH (CONCRETE U-T	Excavation (Common)	Backfill with Selected Soil	Concrete, Type C2	Reinforcing Steel Bar	Formwork FW1	Coutter Run Beddine						•			÷.										· ·	·	 •			
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		Sværrege	KAS INTAKE WEIR AND IRREGATION FACILITIES		d Grubbing	2ui	Demolition and Removal of Existing Structure	evelatable rubber-made dam	KS	(Common)	Backfill with Selected Soil		Concrete, Type CI for Main Structure	урс Е	IM	2.4				Dowel Bars, Dia. 19mm, 1.0 m long			Supply and Driving of PC Piles, Dia. 400 mm, Type AB	PC Pile for Test Pile, Dia 600 mm, Type AB	Supply and Driving of PC Piles, Dia. 600 mm, Type AB	Supply and Driving of 'Steel Sheet Piles, Type II	E RUBBER-MADE DAM	Inflatable Rubber-made Dam including Anchonng matenals,		IRKIGATION INTAKE FACILITIES	CKS	(Lominon)	CARCINI WIN SCIECTER SOU	works. Dur C. for Inimitian Tracks Brailitian and Bridan Ria	Concrete, 1 ype C4 for temperiori (make / activities and ionage rist	Ape Co for block-out concrete for trate rost	1775-02 1704 1		5 7 L	Nenuoruny owen per Brasia faint Biltar 10 mm shiak		Match Stopy of Citit Whee Normal Data: Dia 10th to 10 to Jaco	D14-12UUU4-1-0	0 1 Deinisco (DC Dijes - Dis - 600 mm - 10ms AB		Supply and Latving of Sicci Sacci Flics, Aype H		ATES	I Installation of Steel Silde Gate (H=1.0m, B=1.20m X	Supply and Installation of Steel Slide Gate (H=1.0m,B=1.0m x 2)	IKRIGATION CHANNEL LINNING	Wet Stone Masonry (1:4) for Revenuent		Concrete, 1ype LI for Base Concrete
			BANDAR SIDORAS INTAKE W	PREPARATION WORKS	Clearing and Grubbing	Coffering ar	Demolition	DIFLATABLE R	EARTH WORKS	Excevation (Common)	Backfill wit	CONCRETE WORKS	Concrete, T	Concrete, type E	Formwork F.W.	FORTWORK P.W.	XCINIOTORY SIECLI BAL	TLASHC JOIN	water Stup.	TOWCI Bars	LILE WOKKS	PC Pile for	Supply and	PC Pic for	Supply and	Supply and	UFLATABLI	Inflatable R	Operating a	IIKKICATION IN	EARTH WOR	EXCEVENOR	SACKINI W	CUNCADE IN		Concrete, 1ype L	The survey in the	Toursele TW	Painford	Current Aire Bilter 10	United Star	Points Don	TOWER DARY	VVV TIL	Suppy and	Supply and	1 TW LUC	CONTROL GATES	our fidding	Supply and	IKKIGATIO	Wel Stone	Crusher Ki	Concrete,
8		LOCATION	PE 71+00				-								•													:																-										
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	1 	ITEM NO.	17.	E	E E	F1.2	F13	F2		F2.1	F2.2		72.3	F2.4	P2.5	1-2-6	1.24	07.1	744	12.10		F211	F2.12	F2.13	F2.14	F2.15		N2.16		2		F3.1	2.24	F		4.01		1200	13.1	0.47			11-6-1	5	13.12	13.13	P3.14		13.15	13.16		11.22	13.18	10.17

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	BQ-ITEMS	crete, Type C2 for top Concrete and Channe	hent Mortar Plastering	TW1	Married Steel Rus				L PROTECTION WOKKS	avation (Common)	icrete Block, Crib Type, 1=200 mm	sher Run Bedding	NANCE PACILITIES	ICTION BRIDGE (SUPER STRUCTURE)	icrete, Type C2 for Substructures	terete, Type E	mwork FW1	mwork FW2	nforcing Steel Bar	el Girdor	ply and Driving of RC Piles, 400mm x 400m	ROL HOUSE	nirol House	TON WELKS	ALLON WORNS FOR DAVEASION TEAM		Cong and Dewatering	VEK WEIN		zvation (Common)	ckfill with Selected Soil	ckfill with Impervious Soil	RETE WORKS	ncrete, Type CI	nerete, Type D for Leaning Wall	ncrete, Type E	inforcing Steel Bar	mwork FW1	mmwork FW2	ster Stop, 30 cm wide	wel Bars, Dia. 19mm, 1.0 m long	istic Joint Filler, 10 mm thick	rface Caulking	N WORKS	nerete Druinage Ditch (U- 300mm x 300mm	undation	ckfill with Gravel	cep Hole, Dia 100mm	Weep Hole, Dia. 50 mm Dayed BED PRATECTION WORKS	VEX. BELLENDLEL.LUN. WAXA.	Concrete Block, Feditaria A Fouriaria A Concrete Block Ceh Three 1=400 mm	Cobble Stone Filing for Crib type Concrete Block		
		lo S		100					CHANN	Exe	Co Co	CS -	MAINTE	INSPE	С	ð	For	For	Rei	Ste	Sur	CON	Т	Т	rkera.	ž	-	Т		<u>م</u>	đ	ε β	NOO	8	S	8		o <u>u</u>	£.					a		-			W III					-
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TTEM NO. TTEM NO. F3.20 F3.20 F3.20 F3.20 F3.20 F3.20 F3.20 F3.20 F3.20 F3.20 F3.21 F3.	TTEM NO.	13.20	5.3	2	12.44	2.52	42.64		1	1. 1.4	F4.2	6.27	ž		1.5.1	15.2	533	FS.4	PS.5	15.6	F5.7		13:8	5	3	5	- 1	8		ខឹ	07.Z	CC 3		57	225	326	62.7	228	<u>م</u>	CZ 10	62,11	212	11 W	V-11	62.14		C2.15	C2.16	G2.17		62.18	02 CC		

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SPEC. NO.	11			TS. 6.09	12.4.14		TS. 210	TS. 2.10	TS. 2.10	TS. 12.10		TS. 3.24	TS. 3.24	TS: 3.24	TS. 3.24	TS, 3.24	TS. 3.24	15.3.24	TS. 3.24	TS: 3.24	12.1.21		12: 1210	TS 4.14	12.4.14	114 52		TS: 4.14	TTS: 4.14	TS. 4.14	TS. 4.14		TS. 6.09	TS. 6.09	TS. 12.10	
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No.			MISCELLANEOUS WORKS	Handrail, Galvanized Steel Pipe	Gabion Mattress	Б Е	Excavation (Common)	Backfill with Selected Soil	Backfill with Impervious Soil	Foundation Improvement with Cement		Concrete, Type C1	Concrete, Type D for Leaning Wall	Concrete. Type E	Reinforcine Steel Bar	Formwork PW1	Formwork TW2.	Water Sten: 30 cm wide	Dowel Bars, Dia. 19mm, 1.0 m long	Elastic Joint Filler, 10 mm thick	Surface Caulking	DRAIN WORKS	Concrete Drainage Ditch (U- 300mm x 300mm) with Gravel Fernindation	Backfill with Gravel	Weep Hole, Dia 100mm, including Filter Cloth and Counterflow	Preventation Valve Ween Hole Dia 50 mm	RIVER BED PROTECTION WORKS	Concrete Block, 980mm x 980mm x 400mm	Concrete Block, Cub Type, 1=400 mm	Cobble Stone Filling for Crib type Concrete Block		MISCELLANEOUS WORKS	Handrail, Galvanized Steel Pipe	Galvanized Steel Ladder	Water Level Staff Gauge, Type A	
rocvinon				1	1	1 FW39+50.5				-										-				- F	-					-	F4	1	1	1	1	
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ITEM NO.		<u> </u>		C2.22	222	8	63.1	63.2	513	614		5.63 2	ġ	6.19	6 <u>1</u> 8	CJ.	0122		G3.12	C0.13	C3.14		C3.15	C3.16	C3.17			61.63	8'6	03,21	63.23		C3.23	C3.24	C3.25	

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	SPEC. NO.	-		TS-1.04	75.2.10			TS. 2.10	TS. 2.10	15.210		4 4 F	TS. 2.10		TN.5.07	13.5.07	10.5.01	TK. 5.07	75.5.07	TS. 3.24	TS. 3.2A		TS. 3.24	TS. 3.24	TS. 3.24	TS. 3.24	TS. 3.24	114		TS. 8.07	TS 8.07	TS. 8.07	75, 3.24	10. 2.24	122		15.609	20.8	10 10	20 × 32	17S, 6 09	5 X	101	10 × 07					 15.324	TS. 3.24	TS. 3.24	75.3.24
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		BUDGE WORK	PREPARATION WORKS	Collenng and Dewatering	Clearing and Grubbing	TTTT BESI BRIDCK (P1)	EARTH WORKS	Excavation (Common)	Embankment	Backfill with Salacted Soil		Solid Sodding		PILE FOUNDATION WORKS FOR PIER AND ABUTMENT	SP Pile for Test Pile, Dia 400 mm	PC his for lest his, Diz, 400 mm, Type B	Static Load Test for SP and PC Pue	Supply and Driving of SP Piles, Dia. 400 mm	Supply and Driving of PC Piles, Dia. 400 mm, Type B	Reinforcing Steel Bar		CONCRETE WORKS FOR PIER, ABUTMENT AND APPROACH	Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FWJ	Formwork PW2	Subble Stone Redding	CONCRETE WORKS BOD SUPPE STRUCTURE	Process Prestressed Concrete Beam including Tensioning and Erection	Precast Prestressed Concrete Diaphragm	Prestnessed Concrete Panel for Slab	Concrete. Tyrne B for Slab	Reinformino Steel Rar	Romunde PW7	MISCELLANPOUS WORKS	Expansion Joint, Steel Profile (75 x 75 x 6mm)	Flacthmenic Rearing Pad for Abutment 206 y 220 y 62 mm	Flashmenic Regine Pad for Pier, 406 x 280 x 67 mm	4	Handrail, Galvanized Steel Pipe	Concrete. Type C1 for Handrall Post. Carb and Footnass		Name Mate	DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	Backfill with Gravel	Wet Stone Masonry (1:4) for Revetment	Cement Mostar Plastenno		Concrete, 1ype E	Reinforcing Meel Bar	Formwork FW1
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	ITEM NO.		11	H1-1	H1-2	H2 I	1-24	L.IZH	H2-1.2			HZ-2H	H2-1.5	H2-2	H2-2.1	H2-22	H2-2-3	H2-2.4	H2-2.5	H2-2.6	H2-27	H2-3	H2-3.1	2.5-2H	H2-3.3	H2-3.4	H2-3.5	91°04		- 17-CH	H2-4.2	E 7-CH	P.J.CH	S V CH	H7 AK	S GH	H2-5.1	65.0	12.5.CH	H2-5.4	HZ-5.5	12-5.6	17.47	85-CH	9-CH	H2.61	E.A.C.	LYCH	12-0-2H	2.0-21	H2-6.6	H2-6.7
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SWATT-98	Ween Hole. Dis. 50 mm	PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD : CLASS II)	Sub-Base Course (Class B)	Base Course (Class A)	Asphalt Treatment Base (A.T.B)	Bituminous Prime Coat	Bituminous Surface Course, 50 mm thick	PERKUBUNAN BRIDGE (P2)	EARTH WORKS	Excertaion (Common)	Embankment	Backfill with Selected Soil	se Solid Sodding	Demolition and Removal of Existing Structure	PILE FOUNDATION WORKS FOR PEER AND ABUTMENT		PC Test Pile. Dia, 400 mm. Type B	Static Load Test for SP and PC Pile	Supply and Driving of SP Piles, Dia. 400 mm	Supply and Driving of PC Piles, Dia. 400 mm, Type B	Reinforcing Steel Bar	Concrete, Type C1	CONCRETE WORKS FOR PIER, ABUTMENT AND APPROACH SLAB	Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Fortawork FW2	Rubble Stone Bedding		ding Tensioning and	Process Prestressed Concrete Diaphragm	Prestressed Concrete Panel for Stab	Concrete, Type B for Slab	Reinforcing Steel Bar	Formwork FW2	MISCELLANEOUS WORKS			Exastometric locating rate for fact, 400 X 500 X 57 mm	V. C. D. Linut, Distroy 1001	Concrete Type C1 for Handrail Post Cith and Fromass		Formwork FW L	DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	Backfill with Gravel	Wet Stone Masoury (1:4) for Revetment	Cement Mortar Plastering
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ITEM NO.	H2-6X	HP-7	17-2H	H2-7.2	12-7.3	12-74	H2-7.5		143-1	H3-1.1	H3-1.2	Et-tH	H3-1.4	Sitch	H3-2	H3-2.1	¥3-2-2	H3-23	H3-2.4	H3-2.5	H3-26	H3-2.7	H3-3	HD-3.1	H3-3.2	H3-3.3	H3-3.4	HD-3.5	H3-3.6	N3-4	H3-4.1	H3.4.2	H3-4.3	F3.4.4	73-4.5	H3-4.6	H3-5	1.2-12-	12-22	2002		YSTA		1001 2012	H3-6	H0-61	H3-6.2	E AAAA

	LOCATION	BQ-LTEMS	C. AMOUNT UNIT COST AMOUNT (RP.) (RP.) (RP.)	TOTAL SPEC. NO.
ţ		Concrete, Type Ci		TS. 32A
_				425.22L
		2) Bar		12.324
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		Weep Hole, Dia. 50 mm, including filler Ciota		
		PAVEMENT (SUFERIA RUCH ORE AND AVENAVIA ROAD CONVERT		75.7.09
				407L 'SL
		e (A.T.B)		TS. 7.09
				TS. 7.09
		use. S0 mm thick		TS. 7.09
	PE115+06			
		EARTH WORKS		
		Excavation (Common)		TS, 2.10
				TS. 210
		Backfill with Selected Soil		TS.210
		Solid Sodding		12: 4:14
	-	d Removal of Existing Structure		12. 210
-		PILE FOUNDATION WORKS FOR PIER AND ABUTMENT		
		SP Pile for Test Pile, Dia 400 mm		TIS. 5.07
				TS, 507
		Supply and Driving of SP Piles, Dia. 400 mm		15. 5.07
1		Reinforcing Steel Bar kg		12 S.M.
				15.324
		CONCRETE WORKS FOR PIER, ABUTMENT AND APPROACH SLAB		
1		Concrete, Type C1		TS. 324
		Concrete, Type E		15.324
-		Reinforcing Steel Bar		15.324
				TS.324
1		Formwork FW2		TS.324
		adding:		TTS. 4.24
		R SUPER STRUCTURE		
		Prevast Prestressed Concrete Beam including Tensioning and Erection L.S.		TTS. 8.07
				TS. 8.07
				TS. 8.07
			(1) The second se Second second se	TS. 324
				TS. 3.2A
				TS. 3.24
		S WORKS		1
		Exmansion Joint Steel Profile (75 x 75 x 6mm)		TS. 6.09
		1 HE C		TS. 8.07
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				TIS. 8.07
				15. 6.09
		Post, Curb and Footpats		TS: 3.24
			and the second	TS. 3.24
				TS. K07
		NTCH AND RETAINING WALL FOR APPROACH ROAL		-
				TS: 4.14
		(1:4) for Revetment		TS. 4.14

| TS.4.14 | TS. 3.24 | 12.5.21 | 175- 3.26
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 | | TC 210 | 012.51 | 10.4.10 | 13. 2.10 | TS. 4.14 | TS. 210

 | | 100.01 | 12.50 | 15.324 | NS. 3.24 | | TS. 3.24 | hts. 3.24 | TS. 324
 | TS. 3.24 | TS. 3.24 | TS. 4.14

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 | 70'8'7 | 13.8.0
 | 7. E 3.L | TS, 3.24 | TS. 324
 | | TS. 6.09 | TS. ×.07 | Trs, 8,07 | 50°
 | TS. 324 | 15.324 | 1078 SLL | | 414 ST |
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| Cement Mortar Plastering | Concrete, Type CT | Concrete, Type E | Reinforcing Steel Bar | Formwork FWI | Weep Hole, Dia, SU mm, including Fuller Cloth | PAVEMENT (SUPERSTAUCTORE AND AFRANCIA SUND. | Sub-Base Course (Class B) | ľ |

 | | Compo
 | KAYUNG BRIDGE (PS) | | Exceve ton (Common) | Embankment | Backfull with Selected Soil | Solid Sodding | Demolition and Removal of Existing Structure

 | PILE FOUNDATION WORKS FOR ABUTMENT | SP Pile for Test Pile, Dia 400 mm | | | | CONCRETE WORKS FOR ABUTMENT AND APPROACH SL | Concrete, Type C1 | Concrete, Type E | Reinforcing Steel Bar
 | Formwork FW1 | Formwork TW2 |

 | 21

 | | Precast Prestressed Concrete Diaphragm
 | | Concrete, Ayre Date State | Rommund's FWD
 | MISCELLANEOUS WORKS | | | | Handrail, Galvanized Steel Pipe
 | Concrete, Type C1 for Handrail Post, Curb and Footpass | Formwork FW1 and a summary of the summar | Name Plate | DRAINAGE DITCH AND RETAINING WALL FOR APPROA | Backfill with Gravel |
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| H4-6.3 | 714-6.4 | H4-6.5 | H4-6.6 | H4-6.7 | | H4-7 | H4-7.1 | Ha-7.2 | H4-7.3

 | H4-7.4 | HA-7.5
 | | 74 | HS-1.1 | HS-1.2 | H5-1.3 | HS-1.4 | HS-1.5

 | HS-2 | HS-2.1 | H5-2.2 | ND-2.3 | | H5-3 | HS-3.1 | HS-3.2 | HS-3.3
 | H5-3.4 | H5-3.5 | HS-3.6

 | HS-4

 | H5-4.1 | H5-4-2
 | 2421 | |
 | 15.5 | H5-5.1 | H5-5.2 | H5-5.3 | HS-5.4
 | | H5-5.6 | HS-5.7 | HS-6 | H5-6.1 |
| | | 1 1 1 1 1 2 1 1 1 1 3 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 Centent Moriar Plastering 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 Centent Moriar Plastering 1 1 1 1 2 Concrete, Type C1 1 1 1 1 2 Existencing Steel Bar 1 1 | N4-6.5 1 I Centon Morar Plastering m ¹ Na-6.4 1 Concrete. Type C1 m ² N4-6.6 1 M ² m ² | Na.6.5 1 1 Cancete, Type C1 Na.6.5 1 Concrete, Type E Na.6.5 1 Ma 1 1 Concrete, Type E Na.6.5 1 Ma 1 1 Kain Na.6.5 1 Kain Na.6.6 1 Kain Na.6.7 1 Kain Na.6.8 Ma Ma Na.6.9 No.8. No.8. Na.6.1 No.8. No.8. Na.6.2 1 No.8. | H4-6.5 1 I Centon Morar Plastering m ¹ H4-6.5 1 Concrete. Type E m ¹ H4-6.5 1 I Concrete. Type E H4-6.5 1 I M ¹ I H4-6.1 1 I M ¹ I I H4-6.5 1 I M ¹ I I I H4-6.5 1 I I M ¹ I I | F4-6.5 1 Image: Centon Morar Plastering m F4-6.4 1 Concrete, Type Ci m F4-6.5 1 Concrete, Type E m F4-6.5 1 E Concrete, Type E F4-6.5 1 E Formwork FW1 F4-6.5 1 M M F4-6.1 M M M F4-6.5 1 M M F4-7.1 1 M M F4-7.1 1 M M F4-7.2 1 M M F4-7.2 1 M <td>FA-6.5 1 Centon Morar Plastering m¹ Fla-6.4 1 Concrete, Type C1 Fla-6.5 1 Concrete, Type E Ha-6.5 1 Concrete, Type E Ha-6.5 1 M¹ Ha-7.1 1 M¹ Ha-7.2 1 Nor Ha-7.5 1 M¹ Ha-7.5 1 M¹ Ha-7.5 M¹ M¹ Ha-7.5 M¹ M¹ Ha-7.5 M¹ M¹ Ma-7.5 M¹ M¹ <</td> <td>We.G.51ICenton Morar PlateringWa.G.51Concrete, Type C1m^2Wa.G.51Concrete, Type C1m^2Wa.G.51Concrete, Type C1m^2Wa.G.51Particities Shell Barm^2Wa.G.51Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.G.71Particities Shell Barm^2Ma.7.21Particities Shell Barm^2Ma.7.21Particities Shell Barm^2Ma.7.21Particities Contracted Base (Art.B)Particities Shell BarMa.7.21Particities Shell BarParticities Shell BarMa.7.21Particities Shell BarParticities Shell BarMa.7.21Particities Shell BarParticities Shell BarMa.7.21Particities Shell Treatment Base (Art.B)Particities Shell BarMa.7.21Particities Shell BarParticities Shell BarMa.7.21Particities Shell Treatment Base (Art.B)Particities Shell BarMa.7.21Particities Shell Treatment Bare (Art.B)Particities Shell BarMa.7.21Particities Shell Treatment Bare (Art.B)Particities Shell BarMa.7.21</td> <td>We.G.31ICentert Moriar Plastering$Ya.G.3$1Concrete, Type C1$m^2$$Ya.G.4$1Concrete, Type C1$Ya.G.5$1Concrete, Type C1$Ya.G.5$1N$Ya.G.5$1N$Ya.G.5$1N$Ya.G.7$1N$Ya.G.7$1$Ya.G.7$$Ya.G.7$1<</td> <td>Week 511Concrete. 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Type E1 m² $Ha-6A$ 1 P Readoning Stell Bar m² $Ha-6A$ 1 P Readoning Stell Bar m² $Ha-6A$ 1 P Readoning Stell Bar m² $Ha-7.1$ 1 P Readoning Filler Cooli m² $Ha-7.2$ 1 P North Holder Cooli m² $Ha-7.2$ 1 P North Holder Cooling State Course (Class A) m² $Ha-7.2$ 1 P Biuminous Prime. Course, S0 mm thick m² m² $Ha-7.2$ 1 P Biuminous Prime. Course, S0 mm thick totn totn $Ha-7.2$ 1 P P P P $Ha-7.2$ 1 P P P P</td> <td>WetGS 1 I Centent Moriar Plastering m⁴ m⁴ MatGS 1 Concrete, Type CI m² m² m² MatGS 1 Concrete, Type CI m² m² m² MatGS 1 Reinforcing, Type E K m² m² MatGS 1 P Formwork FW1 m² m² MatGS 1 N Post MontGN FW1 m² m² MatGS 1 N Note Hole, Dia. 50 mm, including Filter Cloth m² m² MatGS 1 N Note Hole, Dia. 50 mm, including Filter Cloth m² m² MatGS 1 N Note Hole, Dia. 50 mm, including Filter Cloth m² m² MatGS 1 N Note Hole, Dia. 50 mm, including Filter Cloth m² m² MatGS 1 N Note Hole, Dia. 50 mm including Filter Cloth m² m² MatGS 1 N Balannious E Note Hole, Dia. 50 mm toth m² m² MatGS 1 N Note Note</td> <td>Wedset 1 I Centent Moriar Platening m⁴ m⁴ Ma-6.5 1 Concrete. Type CI m⁴ m⁴ m⁴ Ma-6.5 1 Concrete. Type CI m⁴ m⁴ m⁴ Ma-6.5 1 Concrete. Type CI m⁴ k m⁴ Ma-6.5 1 F Romwork: PM1 m⁴ k Ma-6.5 1 N Fornwork: PM1 m² m² Ma-7.1 1 N Verp Hole. Dia. 50 mm, including Filter Cleah m² m² Ma-7.1 1 N PA-74 1 m² m² Ma-7.2 1 N Net Print Clast SND m² m² Ma-7.4 1 N Net Print Clast SND m² m² Ma-7.4 1 N Biluminous Surface Course. 50 mm thick to n m² Ma-7.4 1 N PS177-49 N/VUNG SRIDEC (PS) m² m² Ma-7.4 1 N PS177-49 N/VUNG SRIDEC (PS) m² m²</td> <td>Weds 1 Concrete Type Cl m² <thm²< th=""> m² <thm²< th=""> <thm²< <="" td=""><td>Wet, S 1 Center Morar Pastering m² m² m² Na.6.5 1 1 Concrete, Type C1 m² m² m² Na.6.5 1 1 Concrete, Type C1 m² m² m² Na.6.5 1 1 Concrete, Type C1 m² m² m² Na.6.5 1 1 1 Concrete, Type C1 m² m² m² Na.6.5 1 1 1 m² m² m² m² m² Na.7.1 1 1 1 m² m² m² m² m² m² Na.7.1 1 1 p pvcen/stock.Tyte/C10E6.AND.APPROACH ROAD : CLASS 11) m² m²</td><td>WedS 1 Content Platening mt mt Na.4.5 1 1 Controtte, Dyne Cl mt Na.4.5 1 1 Neutron Neutron mt
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		Cement Mortar Plastering	Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1		PAVEMENT (SUPERSTRUCTURE AND APPROACH ROA	Sub-Base Course (Cass B)	Base Course (Class A)	Asphalt Treatment Base (A.T.B)	Bituminous Prime Coat	Bituminous Surface Course, 50 mm thick	PEDESTRIAN BRIDGE (P6)	EARTH WORKS	Excavation (Common)	Embankment	Backfull with Selected Soil	Solid Sodding	Demolition and Removal of Existing Structure	PILE FOUNDATION WORKS FOR ABUTMENT	SP Pile for Test Pile, Dia. 400 mm	Static Load Test for SP and PC Pile	Supply and Driving of SP Piles, Dia, 400 mm	Reinforcing Steel Bar	Concrete, Type C1	S FOR ABUTMENT AND APP	Contracte, Type CI	Concrete, Type B	Reinforcing Steel Bar	Formwork FWI	Formwork FW2	Rubble Stone Bedding	CONCRETE WORKS FOR SUPER STRUCTURE	Procast Prestressed Concrete Beam including Tensioning ar		Reinforcing Steel Bar	Formwork FW2	MISCELLANEOUS WORKS	Exoansion Joint, Steel Profile (75 x 75 x 6mm)	Elastometric Bearing, Pad for Abutment, 480 x 300 x 67 mm	PVC Pipe Drain, Dia.100 mm	Handrail, Galvanized Steel Pipe	Concrete, Type C1 for Handrail Post, Curb and Footpass	Formwork FW1		DRAINAGE DITCH AND RETAINING WALL FOR APPRO		Wet Stone Masonry (1:4) for Revetment	Cement Mortar Plastering	Concrete, Type CI	
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BQ-FTEMS	PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD : CLASS II)	Sub-Base Course (Class B)	Base Course (Class A)	Asphalt Treatment Base (A.T.B)	Bituminous Prime Coat	Bituminous Surface Course, 50 mm thick	PIPE WORKS	Supply and Installation of Water Pipe, Dia.114 mm, including, Joints		MEDAN DENAI BRIDGE WITH WATER PIPES AND CABLE PIPES (P9)	EARTH WORKS	Excavation (Common)	Embankment	Backfill with Selected Soil	Solid Sodding	Demolition and Removal of Existing Structure	PILE FOUNDATION WORKS ABUTMENT	SP Pile for Test Pile, Dia 400 mm	Static Load Text for SP and PC Pile	Supply and Driving of SP Piles, Dia: 400 mm	Reinforcing Steel Bar	Concrete, Type Cl	CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB		Concrete. Type E	Reinforcing Steel Bar	Romwork PW1	Formwork FW2	Rubble Stone Pedding	CONCRETE WORKS FOR SUPER STRUCTURE	Precast Prestressed Concrete Beam including Tensioning and Erection		Prestressed Concrete Pariel for Slab	Concrete. Type B for Slab	- Reinforcing Steel Bar	Formwork FW2	WISCELLANEOUS WORKS	Expansion Joint, Steel Profile (75 x 75 x 6mm)	Elastomeric Bearing Pad for Abutment, 480 x 300 x 67 mm	PVC Pipe Drain, Dia.100 mm	Handrall, Galvanized Steel Pipe	Concrete. Tyrue C1 for Handrail Post. Curb and Footbass	Formwork FW1	Name Plate	DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	Backfill with Gravel	Wet Stone Masonry (1:4) for Revenment	Cement Mortar Plasterine	Concrete. Type C1	Concrete, Type E	
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ITEM NO.	- H7-7	1.7-7H	H7-7.2	5.7-7H	У С-С Н	57-7H	H7-8	H7-8.1	3	313	H8-1	H8-1.1	H8-1.2	H&-1.3	7.1-8H	1.1.5	H8-2	H8-2.1	H8-2.2	32-23	H8-2.4	H8-2.5	HS-3	115-3.1	H8-3.2	H8-3.3	28.3.4	HRAS	7.7.8H	H& L	H8-4.1	H8-4.2	18-43	H8-4.4	H8-4.5	H8-4.6		H8-5.1	H8-5.2	H8-5.3	H8-5.4	HEAA	YY-YK	18-5.7	HS-6	18-6.1	H8-62	HS.6.3	PY-8H	H8-6.5	
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		SPEC.NO.	17. 37.	TS. 324	12.414		TS. 7.09	72. 7.09	TS. 7.09	TS. 7.09	73.709		911141	13:11.06			TS. 2.10	TS. 2.10	TS.2.10	75.4.14	175.2.10		TTS. 5.07	TS. 5.07	TS. 5.07	12.324	TS. 324		TS. 3.24	TS. 3.24	15.324	TTS. 3.24	75.324	TS. 4.14		13. 5.07	15.8.07	TS. K.07	TS. 3.24	TS: 32	13.32		75.600	TS. 8.07	TTS. 8.07	TS. 6.09	TN: 3.24	TS. 324	TS. 8.07	
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•		LUN				OACH ROAD : CLASS	Ē		ton	liter	ton	~	ater Pipe, Dia 100 mm, including, Joints L.S.	ater Pipe, Dia 150 mm, including, Joints L.S.			Ē		î î e	3 2			W	SOU			Ê	BUTMENT AND APPROACH SLAB	, E	Ê	X	Е		· · .	L.	ic Beam including Tensioning and Election Lo.				~	14		· · · · · · · · · · · · · · ·	500 x 67 mm				u	Ψ Ψ	ETAINING WALL FOR APPROACH ROAD
		BQ-ITTEMS		Keintording Sweet Dat	Poinwork FW 1 Went Vote Din Somm including Effer Cloth	PAVEMENT (SUPERSTRUCTURE AND APP)	Sub-Base Course (Class B)	Buch Courter (Class A)	Ashhalt Treatment Base (A.T.B)	4	Bituminous Surface Course, 50 mm thick	PIPI; WORKS	 Supply and Installation of Water Pipe, Dia 10 and Pipe Suprivits 	Supply and Installation of Water Pipe, Dia 15	BINTER BUTTOE WITH WATTER PIPES (PII)	FARTH WORKS	Exervation (Common)	Contrast Constants	Backering with Colored Soil	Calid Coddine	Terratives and Permonal of Evisting Structure	PILE FOUNDATION WORKS FOR ABUTMENT	SP Pile for Test Pile, Dia 400 mm	Static Load Test for SP and PC Pile	Supply and Driving of SP Piles, Dia. 400 mm	Reinforcing Steel Bar	Concrete, Type CI	S FOR A	Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Formwork FW2			Process Prostressed Concrete Beam Including		Prestressed Concrete Panel for Slab	Concrete, Type B for Slab	Reinforcing Steel Bar	Formwork FW2	MISCELLANEOUS WORKS	Expansion Joint, Steel Profile (75 x 75 x 6mm)	Elastomeric Bearing Pad for Abutment, 480 x 300 x 67 mm	PVC Pipe Drain, Dia.100 mm	Handrail, Galvanized Steel Pipe	Concrete, Type C1 for Handrall Post, Curb and Footpass	Formwork FW1	Name Plate	DRAINAGE DITCH AND RETAINING WAL
0	<u>.</u>	LOCATION													DENTO AN	1.														-																				
	and the second se	MFC. NO.	2 3 4 5 6 7									I I	P1													{ [[[]]]	11												T T T	1 1 1										
		TTEM NO.	a di seconda di second	118-0.0	H4-0-7	0.0-617	1.001		27-00	HR.7.4	H8-7.5	HX=X	H3-8.1	.HB-8.2		10.1			71-44	2.1-CV	101	C.1-47	H9-21	H9-22	H9-2.3	H9-2.4	H9-2.5	H9-3	1.5-9H	H9-3.2	H9-3.3	119-3.4	H9-3.5	H9-3.6	H9-4	1.2-0H	79-4.2	H9-4.3	H9-4.4	H9-4.5	119-4.6	H9-5	H9-5.1	H9-5.2	H9-5.3	H9-5.4	119-5.5	H9-5.6	H9-5.7	9-6H

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SPEC.NO.	TS. 4.14	11.4.14	115. 414 M	TS 324	TS. 3.24	TS. 3.24	TS. 324	414 SL		TS. 7.09	TS. 7.09	TS. 7.09	TS. 7.09	13. 7.09		15.11.06	13.11.06			75.2.10	TS. 2.10	15.2.10	115. 4.14	12.2.10		10, 507	115.50	TS. 324	TS.324		TS. 324	TS. 3.24	75.32	NS. 3.24	TS, 324	15.414		13.8.07	TS. 8.07	125. 8.07	75.32	TS-324	TS: 324		12. 0.07	13. 0.07	[13. 8.07
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UNIT	E.	Ê	w,	Ê	Ē	ICS	m2	nos.	D: CLASS II)	E	Ê	ton	liter	ton		IZ AIF LS.	ng Joints L.S.	PES (P13)		Ê	ିନ	E	Ē	LS.			Ě					с 	× ·	е		с 		1	-		9 	-		-			
BQ-TTEMS	Backfill with Gravel	Wet Stone Masoury (1:4) for Revelment	Cement Mortar Plastering	Concrete. Type C1	Concrete. Type E	Reinforcing Stoel Bar	Formwork FW1	Weep Hole, Dia, 50 mm	PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD	Sub-Base Course (Class B)	Base Course (Class A)	Achieved Treatment Base (A.T.B)	Bitmminous Prime Coat	Bituminous Surface Course. 50 mm thick	PIPE WORKS	Supply and Installation of Water Pipe, Dia 400 mm, including Air Value Toints and Pipe Summers	Supply and Installation of Water Pipe, Dia.150 mm, including, Joints	AMPLAS BRIDGE WITH WATER PIPES AND CABLE PIPES (P13)	FARTH WORKS	Excavation (Common)	Embankment	Backfill with Sciected Soil	Solid Sodding	Demolition and Removal of Existing Structure	PILE FOUNDATION WORKS ABUTMENT	SP Pile for Test Pile, Dia 400 mm	Static Load Test for SP and PC Pue	Supply and Driving of SP Frick, Dia. 400 mm		CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB	Concrete, Troe CI	Concrete, Type E	Reinforcing Steel Bar	Formwork PW1	Formwork FW2	Rubble Stone Bedding	CONCRETE WORKS FOR SUPER STRUCTURE	Procast Prestressed Concrete Beam including Tensioning and Erection	Precast Prestressed Concrete Diaphragm	Prestressed Concrete Panel for Slab	Concrete, Type B for Slab	Reinforcing Steel Bar	Formwork FW2	MISCELLANEOUS WORKS		Elastometric Bearing Pad for Abutment, 480 X ,880 X 6/ mm	1 PVC Pine Drain. Dia 100 mm
LOCATION																	: '	PE246+57.5		-					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.												100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100										
MPC.NO. 121314151617																T	1		1.11	11	1		1 -			F							-	1 11-1		1			 					- I I			-
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NR RATTENES UNIT CONT LUNCTONT LUNCTONT <thlunctont< th=""> LUNCTONT L</thlunctont<>		SPEC.NO.	TS. 6.09	TS. 3.24	TS. 324	4.08 34	1.1.000		117 SE	TS. 4.14	TS. 4.14	TS. 324	TS. 3.24	TTS, 3,24	12.324	75.4.24		TS. 7.09	TS. 7.09	TS. 7.09	115. 7.09	TS. 7.09		12.11.06	9011.2T	12:11:06			TS. 2.10	TS: 4.74	15.2.10	TS. 5.07	TS. 3.24	TTS. 3.24	TS. 3.24	TTS. 3.24		90'11'SL	
BACHTEANS BACHTEANS BOLVETTANG UNTET UNTET <td></td> <td>TOTAL</td> <td></td> <td></td> <td></td> <td> .</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>:</td> <td></td>		TOTAL				.								-																								:	
BQ-ITEMS BQ-ITEMS BQ-ITEMS BQ-ITEMS UNIT CUMMENT UNIT COST ANOLINT Handreni, Galvenized Steel Pipe Concrete, Type CT (or Handran Proc. Cuch and Scorpass. m²	d	AMOUNT (RP.)													•																								
RQ.TTEMS RQ.TTEMS RQ.TTEMS RQ.TTEMS RQ. Handrall, Galventined Statel Pipe Concrete, Type Cl rifer Handrall Post, Clob and Sectorsas, me me Month RQ. Remmenter Prist, Remmenter Prist, me me RQ. RQ. Name Pipe Remmenter Prist, me me RQ. RQ. RQ. Remmenter Prist, Remmenter Prist, me me me RQ.	I.,	UNIT COST (RP.)										Second and the second second			•			Sec. 1.																					
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BQ-TTEMS BQ-TTEMS UNIT hiardenii, Galvanitzed Steel Pipe Kg Kg Concrette, Type CT for Handrai Post, Curb and Footpass m Romwork FW1 Romwork FW1 m Romwork FW1 Romkork FW1 m Romwork FW1 Romkork FW1 m Readforting Steel Bar m m Concrete, Type C1 Romm, including Filter Cloth m Concrete, Type C1 Romm, including Air m Sub-Base Courne (Class B) Rom including, Joints L.S. m Readforcing Steel Bar Readforcing Air LS Readforcing Steel Bar Row including, Joints L.S. M Readforcing Steel Bar Row Support M Readforcing Steel Bar Readforcing Air LS Supply and Installation of Water Fipe, Dia JS0 mm, including, Joints L.S. M Supply and Installation of Water Fipe, Dia JS0 mm, including, Joints L.S. M Supply and Installation of Water Fi	¥.	UNIT COST (RP.)						-											-	- - -	-								:		[4				_
BQ-TTEMS BQ-TTEMS Handrail, Galvanized Stell Pipe Lindred, Galvanized Stell Pipe Concerte, Type C1 for Handrail Post, Curb and Poorpass Formwork FW1 Name Plate DRAID/SE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel DRAID/SE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel DRAID/SE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel Wet Stone Massony (1:4) for Reventent Concrete Concrete, Type E Reinforcing Steel Bar Concrete, Type E Reinforcing Steel Bar Formwork FW1 Concrete, Type E Andraid Treatment Base (A.T.B) Base Course (Gass A) Aspaal Treatment Base (A.T.B) Base Course (Gass A) Aspaal Treatment Base (A.T.B) Base Course (Gass A) Aspaal Treatment Base (A.T.B) Base Course (Gass A) Base Course (Gass A) Supply and Installation of Water Pipe, Dia.300 mm, including, Joints Supply and Installation of Water Pipe, Dia.125 mm, including, Joints Supply and Installation of Water Pipe, Dia.125 mm, including, Joints Supply and Installation of Water Pipe, Dia.125 mm, including, Joints Sup	1.4.1	VITTINADO	-						1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.						···· ··· ··· ··· ··			-								· ·						-				~			
BQ-TTEMS BQ-TTEMS Handrail, Galvanized Stell Pipe Lindred, Galvanized Stell Pipe Concerte, Type C1 for Handrail Post, Curb and Poorpass Romwork FW1 Name Plate DR.UNAGE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel DR.UNAGE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel DR.UNAGE DITCH AND RETAINING WALL FOR APPROACH ROA Backfull with Gravel Backfull with Gravel Wet Stone Massony (1:4) for Revetment Cancerte, Type E Relationcing Steel Bar Formwork FW1 Concrete, Type C Concrete, Type C Concrete, Type C Concrete, Type C AND APPROACH ROAD (Case B) Base Course (Case A) PAUEMENT SUCTURE AND APPROACH ROAD (CLASE Base Course (Case A) PAUEMENT SUPPLY Subply and Installation of Water Pipe, Dia.300 mm, including, Air Very Park BRUDGE (CMS) Base Course (Case A) Supply and Installation of Water Pipe, Dia.125 mm, including, Joints Supply and Installation of Water Pipe, Dia.120 mm, including, Joints Supply and Installation of Water Pipe, Dia.120 mm, including, Joints Supply and Installation of Water Pipe, Dia.120 mm, including, Joints Supp	•	LINN	K,	۰ ۴	Ē	2	ġ,		8	с б	۲ E	ê	ŶΕ	kg	Ē	SOL	£	E	Е	шот	liter	vov		LS.	1	5			٦Ê	E	ົະ	ទ	ε	ີຮ	kg	â		'S'	
			handmit, Galvanized Steel Pipe	Concerts Three C. for Wandrail Post Circh and Scottings					Backfüll with Gravel	06		Concrete, Type Cl	Concrete, Type B	Reinforcing Steel Bar	· Formwork PW1- were set of the set of the set				Base Course (Class A)		:	Bituminous Surface Course, 50 mm thick		Supply and Installation of Water Pipe, Dia 300 mm, including Air Valve. Joints and Pipe Supports	Supply and Installation of Water Pipe, Dia 150 mm, including, Joint and Pipe Supports	tion of Wa	L	ABUTMENT.PLER AND CONN		Backfill with Grave!	Backfill with Selected Soil		Concrete, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	METAL WORKS	Supply and Installation of Water Pipe, Dia 600 mm, including Air Valvo Toists and Pipe Sumoots	
		MFC. NO. 2131415161						1 1 1	1	1 1								-	I	-	-	-	Ē	I		-			Ĩ	1	1	1 1	1	1	1	1	1	7	-
MPC. NO. 23:3:4:5:4:5:4:5:4:5:4:5:4:5:4:5:4:5:4:5:		M NO. M	MIDASE	22044	0.001	0.0011	H10-57	H10-6 -	1 1 9-01H	H10-6.2	5901H	H10-6.4	H10-6.5	H10-6.6	HI0.67	H10-6.8	H10-7	K10-7.1	H10-7.2	H10-7.3	H10-7.4	H10-7.5	H10-8	H10-8.1	H10-8.2	5-8-01H		-un	1.1-11H	H11-1.2	- 5.1-11H	4-1-1 H	8.1-11H	9'I-IIH	H11-1.7	H11-1.8	H13-2	H11-2.1	-

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- 	SPEC NO.			TS. 2.10	TS. 2.10	TS. 2.10	TS 4.14		TS. 5.07	TS. 5.07	TS. 5.07	15.3.24	TS. 3.24		105.3.24	TS. 324	TS. 3.2A	TS. 3.24	15 32A	14 H		TX KOT	TS 8.07	TS 8.07	TS 3.24	TS-324 1	TS. 3.24		TS. 6.00	TS. 8.07	TS. KO7	TS 6.09	TS 324	TS. 324	TS. 8.07		TS.4.14	TS.4.14	TS. 4.14	TS. 3.24	TTS. 3.24	TTS. 3.24	15.324	TS. 4.14		TS. 7.09	TS: 7.09	TS, 7.09	TS. 7.09	407 St.	
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	DN BQ-ITEMS	JALAN BAJAK BRIDGE (F1)	FARTH WORKS	Excavation (Common)	Embankment	Backfill with Selected Soil	Solid Sodding	PILE FOUNDATION WORKS FOR ABUTMENT	SP Pile for Test Pile, Dia. 400 mm	Static Load Test for SP and PC Pile	Supply and Driving of SP Piles, Dia. 400 mm	Reinforcing Steel Bar	Concrete, Type Ct	CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB	Conducte, Type C1	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Formwork FW2	Rubble Stone Bedding	CONCRETE WORKS FOR SUPER STRUCTURE		Precast Prestressed Concrete Diaphragm		Concrete, Type B for Slab	Reinforcing Steel Bar	Formwork FW2		Expansion Joint, Steel Profile (75 x 75 x 6mm)	Elastometic Bearing Pad for Abutment, 406 x 280 x 67 mm	Galvanized Pipe Drain. Dia. 100 mm	Handrail, Galvanized Steel Pipe	Concrete, Type CI for Handrail Post, Curb and Footpass	1.1. The "Formwork FW1" is a second of a second se Second second se Second second s Second second s Second second se		DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	Backfüll with Gravel	Wet Stone Masonry (1:4) for Revetment	Cement Mortar Plastering	Condition Type Cl.	Concrete, Type E	Reinforcing Steel Bar			PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD : CLASS II)	Sub-Rate Course (Class B)		Asphalt Treatment Base (A.T.B)	Bituminous Prime Coate	Bituminous Surface Course. 50 mm thick	JALAN PTP-IX BRIDGE (F2)
	LOCATION	FW6+90											_	·	•••		-			• •									•								-		· · · · · · · · · · · · · · · · · · ·	· · · · ·											FW20+45
	MFC. NO. [2] 5] 4] 5] 6]		-	1			1											111				-			1	1				1		-		1						1 1 1 1		-	- 1		1	11	- 1	1			
	TTEM NO.	1112	H12-1	1.1-2tH	H12-1.2	H12-1.3	H12-1.4	H12-2	H12-211	22-21H	H12-23	H12-2.4	H12-2.5	H12-3	H12-3.1	112-3.2	H12-3.3	H12-3.4	H12.3.5	H12-3.6	MIZ-4	H12-4.1	H124.2	H12-4.3	H12-4.4	H12-4.5	H12-4.6	H12-S	H12-5.1	H12-5.2	H12-5.3	H12-5.4	H12-5.5	H12-5.6	H12-5.7	H12-6	H12-61	H12-6.2	H12-63	H12-64	H12-6.5	H12-6.6	H12-6.7	H12-6.8	H12.7	1.7-21H	112-7.2	H12-7.3	H1Z-7.4	H12-7.5	ETH STR

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THEM NO.	MFC NO.	LOCATION	BQ-ITEMS.	UNIT QUANTITY	UNIT COST AN	T UNIT COST	AMOUNT	TVLOL	SPEC NO.
	1 2 3 4 5 6	7			(KP.) (KP.)	(1812)	(KY-)		
H13-1	-		EAKTH WORKS	-					
H13-1.1		_	Excevation (Common)	Ē		_		:	TS. 210
H13-1.2			Embankment	¢E	-	-			TS. 2.10
813-13	I		Backfill with Selected Soil	, E		•	-		TS. 2.10
H13-1.4		-	Solid Sodding	m. ² .					TS. 4.14
H13-2			PILE FOUNDATION WORKS FOR ABUTMENT						
H13-21				æ					TS. 5.07
H13-22			Static Load Test for SP and PC Pile	105					TTS. 5.07
H13-23			Supply and Driving of SP Piles, Dia. 400 mm	Ē					TS. 5.07
H13-2.4				ke				:	TS. 324
20204			Concrete Tyre CI						12.324
H13-3			CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB	}					
HILLI				٩ ٩		:			75, 5.24
H13-3.2			Concrete. Type E	Ê					TS. 3.24
H13-33			Reinforcing Steel Bar	ke.					TS. 3.24
412.14			Formwork FW1	Ē	 				TS. 3.24
~~~~~			Formwork FW2	= =					TS. 3.24
ATTK.			Rubble Stane Fedding	e ^{tt.}					TS: 4.14
W12-4			CONCRETE WORKS FOR SUPER STRUCTURE						-
			Decreet Decreete Ream including Pertioning and Friction	~ 1					70, 8, 07
242.62			Procest Prestressed Concrete Disphragm	LS.					TS. 8.07
1.4.1			Prestressed Concrete Panel for Slab	LS.					TS, 8.07
212.00			Communica Three R for Stab	Ē					FK 3.24
H13-4.5		-	Reinforcing Steel Bar	ke	-				TS. 3.24
Y PLIH			Formwork FW2	<b>m</b> 2	-				TS 324
HILS			MISCELLANEOUS WORKS		 				
HI3-5.1			Expansion Joint. Steel Profile (75 x 75 x 6mm)	E					TS. 6.09
M13-52				Nos					TS. 8.07
H13-5.3			Galvanired Pipe Drain, Dia 100 mm	E					TS. 8.07
H13-5.4			Mandrail, Galvanized Steel Pipe	kg Xg					TS. 6.09
H13-5.5	-		Concrete, Type C1 for Handrail Post, Curb and Footpass	ĴĒ					TS. 3.24
H13-5.6			Formwork FW1	 2					TS.3.24
H13-5.7			Name Plate	105					TS. 8.07
H13-6			DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	4D					
H13-6.1			Backfill with Gravel	ົພ		· · ·			TS. 4.14
H13-6.2			Wet Stone Massoury (1:4) for Revetment	ш,					TS. 4.14
H13-6.3				m²					TS. 4.14
H13-6.4		 	Concrete, Type C1	Ê			-		15.3.24
H13-6.5			Concrete, Type E	, E			1		TS. 3.24
H13-6.6			Reinforcing Steel Bar	kg	· · ·				TS. 3.24
H13-6.7	1		Formwork FW1	2 ^m					TS. 3.24
H13-6.8			Weep Hole, Dia. 50 mm, including Filter Cloth	nos					TTS. 4.14
7-CIH			PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD : CLASS II)	- (n s					
H13-7.1		· · · · · · · · · · · · · · · · · · ·	Sub-Base Course (Class B)	, сп 					TS. 7.09
H13-7.2	1		Base Course (Class A)	œ ع					TS. 7.09
H13-7.3			Asphali Treatment Base (A.T.B)	ton		·			TS. 7.09
H13-7.4			Bituminous Prime Coat	liter					TS. 7.09
H13-7.5	[I   ]		Bituminous Surface Course, 50 mm thick	ton					TIS. 7.09
-		EWD0+55	WATTER PIPE BUIDGE (WIC)	-		-			
				•		-		<u> </u>	

		UNT TOTAL SPEC.NO.	TS. 2.10	TS.4.14	TS.210	TS. 5.07		TS. 324	TS. 3.24	Trs. 324		12.11.06	140 Jan	10.6.61		TS. 2.10	12. 4.14	15.210	135 5.07	TS, 5,07	TS. 324	15.4.34	13.324	TS. 324	Trs. 3.24	TS. 3.24		90"TU'SL		-	12 210	132.210	12, 210	a the SSL		TIS 5.07	TS. 5.07	TS. 5.07	10.01	10. 3.4			15.324	926 SL	12: 32t		- FFF S24
	91	ST AMOUNT (RP.)			:							,		-		   									- - -			-								-									:		_
	_	UNIT COST (RP.)												:										•									-														
		AMOUNT (RP.)								2																		•							-												
	7.C	UNIT COST (RP.)																		-																											
		QUANTITY															*											:																,			
		LIN	Ē	Ê	E	8	5	<b>е</b>	kg	Ē		L-S.	-			Ê	Ê	Ê	3	£	т М	Ê		kg	7E	г Е		S.		-	Ê	Ê	Ê	- ⁴ m		£	ğ	E S	f	•	Ê	îε	kg	Ē	32 19		E
		BQ-ITEMS	Excavation (Common)	Backfill with Gravel	Backfill with Selected Soil	Supply and Driving of RC Piles, 400 mm x 400 mm	Concrete Type B	Concrete, Type C1	Reinforcing Steel Bar	Formwork FW1	METAL WORKS	Supply and Installation of Water Pope, Dia.300 mm, including Air	Valve, Johns and Cloc Supports	PIPE BRINGE FOR IRRIGATION CHANNEL (WR3)	ABUTMENT, PIER AND CONNECTING CHANNEL WORKS		Backfill with Cravel	d Soil	Supply and Driving of PC Piles, Dia. 300 mm. Type AB	Log Pile, Dia. 150mm, Le4.0m	Concrete, Type C1	Sand Bedding	Concrete, Type E	Reinforcing Steel Bar	Formwork PW1	Formwork FW2		Supply and Installation of Water Pipe, Dia 300 mm, including Air	JALAN STM UJUNG BRIDGE (F3)	EARTH WORKS	Excavation (Common)	Embankment	Backfill with Selected Soil		PILE FOUNDATION WORKS FOR ABUTMENT	SP Pile for Test Pile, Dia 400 mm	State Load 1 581 Sumaly and Privas of SD Dire Dir. 400 mm	2	Constructe. Three Cl	CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB		Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Formwork FW2		Rubbie Slone Bedding
		LOCATION	-			-		1		-				1 FW7A+70	1	1	1	1	1	1	1	1	1	1		1			1 FW28+22		1	1	1	1		-			1	1			1	1	1 1		I I
		MFC. NO. [2] 3] 4] 5] 6] 7	1	1 1 3	1	1	~	11	-	1	1	I			-				+				·																								
-		TTEM NO.	H14-1.1	H14-1.2	H14-1.3	H14-1.4	H14-1.5	H14-1.6	H14-1.7	H14-1.8	H14-2	H14-2.1	2.2-41H	SIII	HIS-1	1.1-21H	ZI-SIH	CI-SIN	HIS-1.4	H1S-2.5	9.1-21H	H15-1.7	H15-1.8	HIS.1.9	H15-1.10	HIS11	HIS-2	H15-21	H16	HIGH	H61.1	H16-1.2	H16-1.3	H16-1.4	H16-2	17-914	11/2 1	H16-2.4	H1625	H16-3	H16-3.1	H16-3.2	H16-3.3	H16-3.4	H16-3.5	1 2 2 2 211	0.00000

ITEM NO.	U.L.	LOCATION	BQ-ITEMS	AMOUNT UNIT COST AMOUNT TOTAL	AL SPEC.NO.
	1 2 3 4 5 6 7			/	TTC V(T)
H16-4.3					TS 324
A Port					TS. 3.24
2 2 2 11					TS: 3.24
2-91H			S WORKS		
HIKS1			Extransion Joint Steel Profile (75 x 66m)		TS. 6.09
M16.52			67 mm		TS. 8.07
H16-53			PVC Proc Drain, Dia.100 mm		TS. 8.07
H16-5.4					TS. 6.09
H16-5.5			Post, Curb and Pootpass		TS. 3.24
N16-5.6					TS. 3.24
M16-5.7		2012 - 2012	· · ·		TS. 8.07
9-9tH			NTCH AND RETAINING WALL FOR APPROACH ROAD		
H16-6.1			Backfill with Gravel		TS.4.14
H16-6.2			Wet Stone Masonry (1:4) for Revetment		TS. 4.14
LYYUR		A REAL PROPERTY OF A	Coment Montar Plasterine		TS. 4.14
77714				-	15. 3.24
					TS. 324
0.00111			VUIDENERAL 1/20 D		TS. 3.24
0.0-011					TS 324
10-011			AUTOMATICAL TWAT INTERNATIONAL CONTRACTIONS AND		414 ST
HIGOX					
H16-7		-			97 - 34 97
H16-7.1					13- 1-4
H16-7.2			Base Course (Class A)		101 - 111 012 - 111
H16-7.3					75.200
H16-7-4					00 L 34
C7-0[H		20 Call			
117		10+7CM-1	NAURA I BAUAVE (F4)		
H17-1					
1.1-7tH			Excevation (Common)		ot 7 .st
1117-1.2					TS.210
H17-1.3			Backfill with Scienced Soil.		15.2.10
H17-1.4			Solid Sodding		TTS. 4.14
A 1 7 1 1			and Removal of Existing Structure		TS. 4.14
2-/111					11 C
1.2-71H					10/ 17/
H17-2.2		-			10.0.64
H17-2.3			SP Piles, Dia. 400 mm		10.C.ST
H17-2-4					15.324
H17-25			Concrete, Type C1	-	15.3.24
5-71H			CONCRETE WORKS FOR ABUTWENT AND APPROACH SLAB		
H17.3.1		*** ***** * ****	m ² Concrete. These Ci		TS. 3.24
C 1- L 1 H					TS. 3.24
F. T. T. T. T.			Reinforcing Steel Bar		TTS. 3.24
5 E. L. L.					15.3.24
3 6 4 4 1		  -  -			TX. 324
NI /-2-					
02/14					
			cionists and Transford		10 A DA
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TOTAL SPEC. NO.	15. 8.07	13.324	TS.324	TS. 3.24		TS. 6.09	15.8.07	TIS. 8.07	TtS. #.07		TS. 4.14	13.4.14	125, 4,14	TS.4.14	75.3.24	175. 3.24	175, 3.24	TS: 3.24	175. 4.14		TS: 4.14	TS 414	TS. 7.09	TS. 3.24			15. 2.10	ALL ALL	12.2.10	TS. 5.07	TS. 3.24	15.324	TS. 3.24	15.324		12:11:00	12211.06		12.8.07			15.2.10	15.210	75.2.10	175. 4.14	
C. AMOUNT (RP.)			:																												- +															
UNIT COST										•													_	-+							ļ															
F.C. ST AMOUNT (RP.)									-				-				-					_	~	_	,		-	-							-	-							:			
Y UNIT COST																1						•						-			·		÷		_	· .									-	
UNIT QUANTITY			10			e e	nos.	E	nos		Ê	Ê	m ²	m ²	em,	μ,	ke	m ²	nos.		Ē	2	tèn		L.S.		-			m i m	m*		ŝ	н Н		1	1 6		LS.	:			E C	e E	а ² п	
BQ-TTEMS	Prestressed Concrete Papel for Slab				S WORKS	Expansion Joint, Steel Profile (75 x 75 x 6mm)	utment, 406 x 280 x 67 mm	ain, Dia 100 mm		DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	Backfill with Gravel	Wet Stone Masoncy (1:4) for Revetment	Wet Stone Masonry (1:3) for Revetment	Cement Mortar Plastering	Constrate, Type C1	Concrete. Type B	Reinforcine, Steel Bar		. 50 mm, including Filter Cloth	REMOVAL AND REINSTRALLATION OF RAILWAY	Crusher Run Bedding	Sand Bedding	Asphalt Treatment Base (A.T.B)			WATER PIPE BRIDGE (WB4)		EXCEVENDIN (COMMON)	Rachfill with Schered Soil	Supply and Driving of RC Piles, 400 mm x 400 mm	· · ·	Concrete, Type E	Reinforcing Steel Bar	Formwork PW1	-+	r Pipe, Dia 300 mm, including Air	Valve, Joints and Price Supports.			IDGE WITH WATER PIPE (FS)	EARTH WORKS	Excervation (Common)	Embankment	Backfill with Selected Soil and an and a selected Soil	Solid Sodding	
LOCATION												:														FW32+00					-					-				FW33+65			-		-	
MFC.NO.												<b>Z</b>									1 1 1			1																				<b>I</b>     <b>I</b>	<b>₹ - - - </b> -	
TTEM NO.	1 2 7 2 1 2		11/11	97216	H17-5	H17-5.1	H17-5.2	H17-5.3	H17-5.4	H17-6	H17-6.1	H17-6.2	H17-6.3	H17-64	H17-65	H17-KK	H17-67	H17-6.8	H17-6.9	1-21H	H17-7.1	H17-7.2	H17-7.3	H17-7.4	H17-7.5	1118		H18-1 1	4.1-0111	H18-1.4	H18-1.5	3.1-814	H18-1.7	H16-1.8	H18-2	H18-21	000	7-7-0112	H18-23	1119	1-614	1.1-2(H	H19-1.2	H19+1.3	H19-1.4	

		SPEC.NO.	TS. 5.07	TS. 324	TS. 324		TS. 3.24	TS. 3.24	15.324	TS. 3.24	15.324	115. 4.14		15.8.07	TS. 9.07	TS. 8.07	TS. 3.24	13.324	TS. 324		13,60	TS. 8.07	TS. 8.07	V). 6.1V	TS. 3.24	15.3.4	TS. 8.07		12. A.14	TN. 4.14	11- 4- F	TS. 324	TS. 3.24	TK 324	15.324	7.414		TS. 7.09	175. 7.00	TS. 7.09	TS. 7.09	73. 7.09		0011-01			210	010 34		19. 19	1.4.14	
•		TOTAL																									:			·						-													-			
		AMOUNT (RP.)																																				.							-							
* .		UNIT COST				-										-						:		:																					•							
	10	T AMOUNT				-					-		-			_			_				-		:						-	_		-			-		-					:								
		TY UNIT COST			-							· ·	-	-		-	-			_		•		:			: : :				-		_	_				• •		-				· · ·	-					-		
		THINNING TINU	ε	ke	m^ _	-	- - н	Ĵ.	kg -	m ²	m ²			LS.	LS.	1.5.	m ³	ke	ZE		E	NOS	E	kg.	a,	, E	105	_	, E	È.	E	Ĵ.	ſE	Ka	² н	ROS	G G	Ê	^e	ton	liter	tou		L.S.					6	E	6	
		UT BQ-TTEMS	Sumily and Driving of SP Piles, Dia, 400 mm			CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB			Bar				CONCRETE WORKS FOR SUPER STRUCTURE	eam including Tensioning and Erection		Prestressed Concrete Panel for Slab		Reinforcing Steel Bar			te (75 x 75 x 6mm)	butment, 406 x 280 x 67 mm		_	Concrete, Type C1 for Handrall Post, Curb and Footpass	Promwork FW1		ND RETAINING WALL FOR APPROACH ROAD		for Revetment	stering	Concrete, Type C1	Concrete. Type E	Reinforcing Steel Bar	Formwork PW1	uding Filter Cloth	PAVEMENT (SUPERSTRUCTURE AND APPROACH ROAD : CLASS II)	Sub-Base Course (Class B)	Base Course (Class A)	Asphalt Treatment Base (A.T.B)	-	face Course, 50 mm thick		ter Pipe, Dia.350 mm, including Air	Valve, Joints and Pipe Supports.	E AND FUILD AND A BAUN BAUNSEY A FOR EA FROM AND		LICERVATION (COBUTION)	Embankment	Backfill with Selected Soil	Solid Sodding per ferentinder thon workes for abilitikent	
		N N										1		1	1	1	<b>I</b>			-									1	1 1										- 1 2		- <b>I</b>			- 100 T - 100				I	<b>F1</b>		
		ITEM NO.	1	0.0.010	H10.2.5	H19-3	1.5-91H	H19-3.2	H19.3.3	H19-3.4	2.5-91M	979-7H	H19-4	1.2-01H	H19-4.2	H19-4.3	H19-4.4	2.19.4.S	975-61H	H19-5	H19-5.1	H19-5.2	H19-5.3	H19-5.4	H19-5.5	- H19-5.6	H19-5.7	9-61H-	1.3-9TH	H19-6.2	C.0-01H	H19-6.4	H19-6.5	M19-6.6	7.3-0tH	X-9-61H	H19-7	1:7-91H	2.7-9fk	H19-7.3	H19-7.4	M19-7.5	8-61H	1.8-91H	2	0211	1-074	H20-1.1	H20-1.2	120-1.3	120-1.4	

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MPC.NO. 12	LOCATION	BQ-ITEWS	VITT QUANTITY	() UNIT COST (RP.)	AMOUNT (RP.)	UNIT COST (RP.)	AMOUNT (RP.)	TOTAL	SPEC. NO.
-	-	SP Pile for Test Pile, Dia 400 mm	ť					1	TS. 5.07
		Static Load Test	nos					<b>-</b>	TS. 5.07
<b>F</b>	-	Supply and Driving of SP Piles, Dia, 400 mm	w					4	TS. 5.07
ř		Reinforcing Steel Bar	ky				· · · · · · · · · · · · · · · · · · ·		S. 3.24
1									TS. 3.24
г		CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB						=	
1		Concrete, Type C1	. m ³					<u> </u>	S. 3.24
. 11		Concrete, Type E	°E					-	TS. 3.24
-		Reinforeing Steel Bar	-3X					c	TS. 3.24
-		Formwork PW1	а ⁷ г						TS. 3.24
-		Formwork FWZ	3						TS. 3.24
-		Rubble Stone Redding	ΓĒ						¥1.4 ST
•	╋	CONCRETE WORKS FOR SUPER STRUCTURE							
-		Precast Prestneed Concrete Ream including Tensioning and Erection	LS.					ţ.	S. K.07
						.			TS, 8.07
		Prestnested Concrete Panel for Slab	LS.						S. 8.07
			ĩ						101 3
	╉	Deletance, Lype D for Died							2.7.6
				:					
-		Expansion Joint, Steel Profile (75 x 75 x 0mm)	E						TS. 6.09
7			210S						S. 8.07
	-	PVC Proc Drain, Dia 100 mm		-					TS. 8.07
-		Handrail, Galvanized Steel Pipe	K2						15.6.09
		Concrete, Type C1 for Handrail Post, Curb and Footpass	È						5.324
		Formwork FW1	m ⁴						75.324
-			NOS.	:					S 8.07
1		- DRAINAGE DITCH AND RETAINING WALL FOR APPROACH ROAD	9			_			
		Backfill with Gravel	ſE						TS. 4.14
		Wet Stone Masonry (1:4) for Revetment	m ²				1		TS.4.14
I		Coment Mortar Plastering	m ²				-		75.4.14
-		Concrete, Type C1	s w						12.3.24
11		Concrete, True E	•						75. 3.24
		Reinforcing Steel Bar	kg .						TS, 3.24
11		Formwork FW1	m ²						12.324
F		Weep Hole, Dia. 50 mm, including Filter Cloth	nos.						TS. 4.14
1		PAVEMENT (APPROACH ROAD)	-	1					
		Gravel Pavement, 200 mm thick	, m	-					TS. 7.09
V4 1 1	1 FW38+78 J	JALAN SMA BRIDGE (F7)							
		EAKTH WORKS		ļ			-  -		
1	 	Excavation (Common)	ш ²						12.210
7		Soil	Ē						TS. 2.10
1		CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB							
1		Concrete, Type CI	°e			_			TS. 3.24
1 1		Concrete, Type B	°е						TS. 3.24
		Reinforcing Steel Bar	kg						TS. 3.24
		Formwork FW1	m ² ]						TS. 3.24
11		Formwork FW2	7.E			• .			TS. 3.24
1 1		Rubble Stone Bedding	т <mark>ь</mark> 1 – 1 – 1 – 1 – 1 – 1 – 1 – 1 – 1 – 1						

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ITEM NO.	MFC. NO. LOCATION	swatt-0a	UNIT QU	QUANTITY UNIT COST	\$ اي	UNIT COST	AMOUNT	TOTAL	SPEC NO.
1	2 3 4 5 6 7		- 8	(.RP.)	(RP.)	(RP.)	(RP.)		
H21-3.1		Precast Prestressed Concrete Beam including Tensioning and Erection	- 1	-			-		TS. 8.07
H21-3.2									TS 8.07
H21-3.3		Prestressed Concrete Panel for Slab	LS.	~~		_		-	TS. 8.07
H21-3.4	<b>II</b>	Concrete, Type B for Slab	îe						TS. 3.24
121-3.5		Reinforcine Steel Bar	ke						TS: 324
121-3.6		Formwork PW2	7 E						TS. 3.24
H21-4	1	MISCELLANEOUS WORKS							
1,21,4.1			ŧ					-	TS. 609
H21-4.2	-		SQU						TS. 8.07
H214.3			E						TS. 8.07
H21-4.4	1	Handrail, Galvanized Steel Pipe	Xe						TS. 6.09
27101			r _e						TS 324
		Examinate EW4	2						TE 376
0									
1.1.1.1			ic th	-					10.00
0:7U									
FZ1-5.1		Bituminous Prime Coat	lite		-				(1). (1)
121-5.2		Bituminous Surface Course, 50 mm thick	ton		_				13. 7.09
1122	1 DU-19+00	UDGE (1%,				-			
HZ2-1		EARTH WORKS							
1:1-22H		Excevation (Common)	Ъ.						TS. 2.10
H22-1.2		Embankment	с ^ш	-					TS. 2.10
HZ2-1.3		Backfill with Sciented Soil	ر سے						75.2.10
× - 465		Calid Cadding	~						TN. 414
1.1.1.1		Dumalition and Demousl of Evicting Structure							TK 210
1.1.1.1			i i						
1000									
1.2.277		Strike I and Terr							10: 0:01 The \$ 0.5
C-2-7714		Supply and Driving of SK Flics, Dia, 400 mm	E						10.2.07
HZ-24		Keintoreng Steel Bar							
HZ2-2.5	1	Concrete, Type Ci	È		_				TS. 3.24
HZ2-3	F-1	CONCRETE WORKS FOR ABUTMENT AND APPROACH SLAB							
HZ2-3.1		Concrete, Type CI	ЪЕ П			•			TS. 3.24
H22-3.2 -		A. Concrete, Type E							TS. 324
H22-3.3		Reinforcing Steel Bar	KG.			× .			TS. 3.24
172.3.4	1	Formwork FWT and an and and	m ² .		2				TS. 3.24
H22-3.5		Formwork FW2	т <mark>*</mark>	11 ANN	· · · ·				TS. 5.24
H22-3.6		Rubble Stone Redding	с Ге	and the second					112. 4.14
ACCH	· · · · · · · · · · · · · · · · · · ·	CONCRETE WORKS FOR SUPER STRUCTURE							
H22-4.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Process Prestressed Concrete Beam including Tensioning and Erection	LS.						TS. 8.07
H22-4.2		Procast Prestressed Concrete Disphragm			- - -				TS. ×.07
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N22-4.5		Reinforcing Steel Bar	. kg						TS. 3.24
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HZ2-5.1		Expansion Joint, Steel Profile (75 x 75 x 6mm)	ε		:				TS. 609
172-5.2			nos.						TS. 8.07
H22-5.3		PVC Pipe Drain, Dia.100 mm	E	-					TS. 8.07
HZ2-5.4		Handrail, Galvanized Steel Pipe	kg						TS. 6.09
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	BQ-JTEMS		Entrance Gate	RELOCATION OF WATER LEVEL GAUGING STATION	Excavation (Common)	Backfull By Selected Soil	Steel Pipe Pile	Concrete, Type C1	Wet Stone Masonry for Step	Steel Price for Intel Pipe, Dia. 200 mm	Observation House	INTAKE FOR FISHPOND (PE6R+00, PE6+125)	Excavation (Common)	Backfüll with Sciected Soil	Log Pile, Dia. 150 mm, 1=4.0m	Concrete. Type Cl	Concrete, Type E	Reinforcing Steel Bar	Formwork FW1	Gabion Mattress	Gabion Otlinder	Steel Slide Gate (1m x 1m)	APPROACH ROAD FOR MAINTENANCE	Excavation (Common)	Base Course (Class A)	Sub-Base Course (Class C)	Asphalt Treatment Base (A.T.B)	Entrance Cate	
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# CHAPTER 8

Chapter 8

## **OPERATION AND MAINTENANCE**

8.

## CHAPTER 8. OPERATION AND MAINTENANCE

#### 8.1 Institutional Setup

#### 8.1.1 Basic Concept

#### Legal Aspect

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Several laws, presidential decrees and government/ministerial regulations have been executed for the proper operation and maintenance (O&M) of rivers, as shown in Table 8.1.1 (refer to the report entitled "An Integrated Programme for the Development of Operation and Maintenance for Rivers in Indonesia", July 1993; CIDA). Among them, the following regulations are particularly relevant to the formulation of an O&M organization:

- (1) Government Regulation No. 22 (1982)
  - (a) Direct beneficiaries are to pay their share;
  - (b) Works for general welfare are to be covered by the Local Government; and
  - (c) The Central Government may assist local entities.
- (2) Government Regulation No. 35 (1991)
  - (a) River administration may be delegated to local government or state-owned companies; and
  - (b) Rivers may be administered by a system of co-administration, which implies that the financing will be provided by the Central Government but the implementation will be undertaken by the Provincial Government.

The Government of Indonesia has been striving to establish an effective organization to administer, operate and maintain rivers and water resources by employing local governments and people which would derived benefit therefrom in accordance with the national policy of diversification and sustainable development.

**Current Practice on O&M** 

In the administration and development of rivers, including flood control works, the legal position favors new construction works. In accordance with Government Regulation No. 39 (1991), rivers may be administered by a system of co-administration, which implies that financing is provided by the Central Government but the implementation is undertaken by the Provincial Government. Since financing during and after completion of a project remains as a

responsibility of the Central Government, there is no clear distinction between a project work undertaken by the Central Government (Ministry of Public Works) and routine maintenance undertaken by the Provincial Government. In actual practice, no river administration has been transferred to provincial governments and the Central Government continues to be responsible for funding as well as implementation of O&M.

The present budgeting procedure is not geared towards O&M. The Ministry of Pubic Works prepares its project budget as part of the Proposed Development Budget, under seven headings; namely, Salaries, Land, Materials, Equipment and Machinery, Official Travel, Construction, and Others.

Construction accounts for a major portion of the budget. Since there is no separate heading for O&M, the allocation for O&M is made under the construction heading which implies that an O&M project must be justified as a construction project. The amounts reflected as O&M expenses were, essentially, amounts spent on rehabilitation and other construction works.

Most major river improvement and flood control works including operation and maintenance are presently funded by the Central Government through the PPS offices. Accordingly, allocations for O&M are often diverted to new construction and other purposes.

8)

A Provincial Government exercises jurisdiction over most river basins lying totally within the province, while the Ministry of Public Works has the authority over interprovincial and a few important river basins. Government Regulation No. 22 (1982) calls for the formulation of comprehensive water resources plans and classify the country's rivers into two categories under the jurisdiction of the Ministry of Public Works; namely, important and interprovincial, and any river within one province under the jurisdiction of the province. As shown in Table 8.1.2, Ministerial Regulation No. 39 (1989) also defines 90 river basins, and Ministerial Regulation No. 48 (1990) specifies the responsibility over these rivers/basins (73 provincial, 15 national, and 2 managed by public corporations).

In North Sumatra Province, there are six classifications of river territories; namely, Wampu-Besitang, Belawan-Belumai-Ular, Bahbolon, Asahan, Barumun-Kualuh, and Batang Gadis/Batang Toru, although they are not limited to one river basin. All the six river territories are under the jurisdiction of North Sumatra Province; however, the funding and construction of projects and hence, the implementation of O&M, are undertaken by the Central Government and its appointed project offices. Usually, studies and projects for the above-said rivers have been carried out with foreign assistance, as tabulated below.

•	Name of Project	Works Undertaken	Name of Country/Institution
	Ular River Flood Control	Study, Design and Construction	Japan/JICA and OECF
	Bahbolon River Improvement	Study, Design and Construction	Australia
	Belawan-Padang Development	Study and Design	Japan/JICA
	Deli River Improvement (MUDP)	Design and Construction	Asian Development Bank

## Area Coverage of O&M

Administratively, the project area is covered by Medan City (Kotamadya) and Deli-Serdang District (Kabupaten) of North Sumatra Province. The administrative boundary with respect to the project area is presented in Fig. 8.1.1.

In formulating the O&M plan for the Medan Flood Control Project, it is necessary to firstly consider the implication of the improvement works of Deli River which are executed under the Second Medan Urban Development Project (MUDP II). The works consist of the improvement works of the Deli River main stream for 24.367 km and the improvement works on its tributaries (Sikambing, 16.8 km and Putih, 6.8 km) with the design flood discharge corresponding to a 10-year return period. On the other hand, some upstream portions of the Deli River main stream until the Deli River Weir and the biggest tributary, Babura River, will be improved to the flood control scale under the proposed Third Medan Urban Development Project (MUDP III).

Completion of the Medan Flood Control Project itself should bring changes in the area, as described below.

الرابة فوكار بالوالة الأرابية

- (1) With the completion of the Percut River Improvement Works and the construction of Medan Floodway as expected in the year 2000, hydrological conditions especially flood flows will change drastically. Deli River will be connected to Percut River by Medan Floodway, forming one river system. Flood flows with a scale of less than 25-year return period will be completely confined in the river channel without any damage over Medan City and suburbs.
- (2) The urban drainage system connected to either Deli or Percut River will also be improved as much as stormwater of less than 2 to 5-year return period will bring no inundation therearound.
- (3) Confining floods in river and drainage channels and reconstruction of bridges will relieve the traffic condition from frequent stagnation and congestion. The reconstruction of Bandar Sidoras Intake Weir with less O&M works will ease the irrigation practice and further promote its expansion.

(4) Some environmental improvement works such as the construction of waterfront facilities will not only improve sanitary conditions to be brought by flood mitigation effects but also introduce more pleasant living conditions.

In accordance with the current practice of O&M for rivers in North Sumatra Province, especially Deli River and Percut River, the Project Office of Proyek Pengenlolaan Sumber Air dan Pengendalian Banjir Sumatera Utara (PPSAPB-SU, Project of Water Resources Development and Flood Control in North Sumatra) implements the operation and maintenance works for flood control works of the Deli River. Accordingly, the flood control works under the Medan Flood Control Project will be under the responsibility of PPSAPB-SU.

## 8.1.2 O&M Organization and Functions

#### Existing Organizations

Although no definite organization is assigned to O&M works, there are two organizations which are related to rivers as to water resources development and flood control; namely, Dinas Pengairan Sumatera Utara (DPSU, North Sumatra Provincial Office for Water Resources Development) and PPSAPB-SU (refer to the organization charts in Figs. 8.1.2. and 8.1.3). The two organizations are under the Directorate General of Water Resources Development (DGWRD), Ministry of Public Works, and they are in charge of development, improvement and O&M of rivers in North Sumatra.

As shown in the charts, Sub-Dinas Sungai dan Rawa (Subdivision of Rivers and Swamps) under DPSU and Pengendalian Banjir Kota Medan dan Sekitarnya (PBKMS, Flood Control Project in Medan City and Suburbs) should specifically carry out the O&M for the Project and the Deli River Improvement Works. However, the two offices financially rely on the national budget in their implementation of any work for flood control and water resources development. PBKMS is now actually in charge of construction, rehabilitation and O&M.

#### Manpower and Financial Status

On account of actual undertaking of work for rivers, the existing condition of manpower and financial capacity were studied only for the PPSAPB-SU.

8-4

(1) Manpower

The manpower in PPSAPB-SU as of April 1995 is summarized below (details are presented in Table 8.1.3.):

A

Classification	Number
Senior Engineer (Insinyur)	23
Junior Engineer	20
Technician	162
Administrative Officer	24
Administrative Staff	60
Total	289

#### Financial

(2)

For the last five years from 1991 to 1995, PPSAPB-SU had engaged in six projects in North Sumatra Province with the total cost of about 82 billion rupiah. Out of the project cost, about 23 billion rupiah, which corresponds to 28%, was provided by foreign funding institutions as foreign loan. As to financial capability, PPSAPB-SU may be able to allocate about 12 billion rupiah per annum for the construction and rehabilitation of rivers, as shown below:

		·			(Unit:	Million Rp.)
Name of Project			Fiscal Yea	ar		Total
	1991/92	1992/93	1993/94	1994/95	1995/96	
North Sumatra Rivers	2,715	3,224	4,446	10,704	6,750	27,839
Wampu River Rehabilitation	2,954	2,664	2,864	0	0	8,483
Binjei City Flood Control	151	966	1,619	0	0	2,736
Ular River Rehabilitation	0	551	.775	0	0	1,326
Bahbolon River Rehabilitation	. 0	0	0	2,174	1,273	3,447
Medan City Flood Control	0	0	0	25,091	12,765	37,856
Total	5,820	7,405	9,701	37,969	20,788	81,687
(Foreign Assisted Portion)	0	0	0.	15,950	6,888	22,838

The actual cost for O&M is not clear from the budgeting schedule presented in Table 8.1.4, because no work item for operation and maintenance is shown in the schedule. The projects under North Sumatra Rivers were mostly rehabilitation works of rivers other than those specified therein. Since the rehabilitation works could be considered as part of operation and maintenance for the rivers, the possible allocation for O&M works is estimated at 2.5 billion rupiah or about 50% of the average annual budget of North Sumatra Rivers. The possible amount will be further allocated to 10 to 15 rivers under the jurisdiction of North Sumatra Province.

## Functions

O&M activities for rivers are also undertaken by PPSAPB-SU, although the Sub-Project Office for Rivers and Swamps is deemed to be responsible from the existing organizational setup. Two major activities have been identified; namely, (1) the sub-project offices under

PPSAPB-SU conduct all O&M works for a certain period after completion of construction, and (2) PPSAPB-SU prepares funds and manpower for necessary rehabilitation works which are identified by the branch offices of Dinas Pengairan of North Sumatra Province, since a branch office is established in each Kabupaten of North Sumatra Province and mostly carrying out the O&M works for irrigation.

Due to the budgeting system, the actual works such as survey/design, equipment purchase and civil works for deteriorated structures/facilities are controlled and undertaken with project funds by the project staff of PPSAPB-SU. Moreover, the PPSAPB-SU prepares rehabilitation projects for contracting with local consulting engineers and/or construction contractors.

## 8.1.3 Organizational Setup

#### **Overall O&M Organization**

In accordance with the current practice of O&M for rivers in North Sumatra, the O&M organization for Percut River and Medan Floodway will be incorporated in an overall river O&M system for the Deli and Percut rivers. This concept may be advantageous from the viewpoint of not only engineering soundness but also financial through the avoidance of duplication of functions or immobility of the organization if it is established independently from other systems.

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#### Proposed O&M Organization

An organization for O&M is proposed for the Project in view of the required operation and maintenance plan described in the succeeding section, although the organization is set up for all rivers in North Sumatra Province. O&M works and responsibility for flood control projects will be transferred to the province under the North Sumatra Provincial Public Works because the project is located within the province. Under the Sub-Project Office for Rivers and Swamps, on the presumption of the existing organization and regulation, an O&M unit can be created to exclusively carry out the operation and maintenance work for all flood control and water resources works in North Sumatra Province after their construction.

O&M work is considered to cover (1) the integrated operation of all major river structures and river improvement, and (2) river monitoring and comprehensive flood management for river structures, flood control works such as river dike and channel, flood plain management such as flood warning/fighting and zoning, low flow discharge, water quality, sand mining, river mouth condition of sedimentation, and environmental matters.

## (1) Required Activities of O&M

The project works are composed of river improvement works together with river structures such as diversion weirs, intake weir, groundsill, etc. There are also the road, railway and pedestrian bridges, as well as the urban drainage facilities which are included in the Project.

When the activities are classified into two categories, operation and maintenance, the project works related to operation will be limited to the new Bandar Sidoras Intake Weir, the retarding channel and the drainage sluice, while maintenance shall be required for all project works.

#### (a) Operation

A proper gate operation is required for the new Bandar Sidoras Intake Weir and drainage sluices while inflation of the rubber body is also made in accordance with the operation guideline. An operational management plan is necessary for the retarding channel to be located upstream of the proposed Deli River Weir. No facility or equipment will be installed for the area; however, the guideline or regulation for utilization is to be publicized.

(b) Maintenance

Periodical and routine inspection over project works shall be carried out to promptly undertake effective and economical countermeasures for deteriorated portions or the whole works. The frequency of inspection is varied depending on material, type and surrounding condition of the works; however, such inspection work shall be conducted at least before and after flood seasons. Items of inspection, as well as some effective preventive works, are prepared.

(2) Structure and Manpower for O&M Organization

The operation of road, railway and pedestrian bridges, as well as drainage facilities will be transferred to the local government entity to which they belong. The operation of road and pedestrian bridges will be transferred to Medan City or Kab. Deli Serdang and the railway bridge to PJKA. O&M of drainage outlets shall be under the Public Works Office of Medan City or Kab. Deli Serdang. Therefore, the organizational structure for O&M is proposed to cover river and river structures not only of the Project but also of the Deli River Improvement Works when completed under MUDP, as presented in Fig. 8.1.4.

Manpower for the O&M organization is proposed only for the river and river structures under PPSAPB-SU. The required manpower for the Percut River improvement and relevant river structures is estimated as follows:

Designation	Number	Job Description
Senior Civil Engineer	1	Direction and supervision of O&M work
Asst. Civil Engineer	2	Inspection and preparation of countermeasures
Surveyor	6	Assistance for inspection and measurement
Adm. Staff incl. Driver	4	Day to day administration

#### 8.2 Operation Plan

#### 8.2.1 Intake Structure

The new weir is a kind of rising weir made of rubber with bag shaped to be inflated by air. When overflow depth exceeds a certain level at flood time, the dam body shrinks and falls down automatically by water pressure. Therefore, floods bigger than a certain discharge may flow down safely without obstruction. After flood, the dam body will be inflated and raised by the air compressor in short time, and the function as intake weir is recovered.

#### Present Water Use

Present condition of water use related to the Bandar Sidoras Intake Weir is as shown in Fig. 8.2.1. In accordance with the data and plan of the Irrigation Section, Branch Office of Kab. Deli-Serdang North Sumatra Provincial Office of Water Resources Development, the existing irrigation area on the right bank side is estimated at 2,090 ha and that of the left bank side is 1,360 ha. In the future irrigation plan, the irrigation area of the left bank side will increase by 320 ha to 1,680 ha. Accordingly, the water requirement of the right intake is estimated at 2.09 m³/s, and that of the left intake is 1.36 m³/s at present, 1.68 m³/s in future.

The cropping yield is currently performed at 130%. As a standard cropping pattern, puddling is carried out in April and October, planting in May and November, and harvesting in August and February. However, this cropping pattern is not uniformly practiced; some farmers shift their activities by one or two months.

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11.2

## Inflatable Rubber-Made Dam

## (1) Main Futures

The main futures of the inflatable rubber-made dam to be newly constructed are given below. The rubber body itself is supposed to be set in the condition of rising or falling down completely without intermediate condition.

Height of Rubber Body	3.14 m
Length of Bottom	13.00 m
Datum Level of Rubber Body	EL 0.920 m
Reservoir Water Level (Dam Crest)	EL 4.06 m
Auto-Deflation Water Level	EL 4.87 m
Medium of Inflation	Air
Rubber Sheet Size	6.315 m × 32.330 m
Thickness of Rubber Body	15.8 mm
Internal Air Volume of Rubber Body	198.7 m ³

## (2) Deflating Rubber Body

Manual operation to deflate the rubber body is not needed as a rule. When water level in the river rises higher than 1.2 times the dam height (i.e., EL 4.870 m), the air inside the rubber body will be automatically exhausted by water pressure and the dam shrinks and falls down. The rubber body appears flat when deflated. The time needed for deflating the rubber body is estimated to be 22 min.

The overflow discharge when the rubber body starts to deflate is estimated to be about  $20 \text{ m}^3$ /s which corresponds to a 20% discharge in annual flow regime. The frequency of dam deflation is presumed to be some 10 times a year. Therefore, the siltation inumediately upstream of the dam will not be serious due to the high frequency of dam deflation.

(3) Inflating Rubber Body

As required for irrigation water after flood, the rubber body shall be inflated to raise the river water level. The inflation could be started by pressing a switch on a control board which is installed in a control house at the right bank. The time needed to inflate the rubber body is estimated to be 35 minutes.

## Intake Gate

(1) Main Features

The main features of intake sluices, which are installed at both right and left bank sides immediately upstream of the inflatable rubber-made dam, are as follows.

Left Intake Sluice	
- Orifice Size	B1.0 m × H1.0 m × 2 sets
- Sill Elevation	EL 2.900 m
- Gate Type	steel slide gate
- Hoisting System	manually driven spindle
Right Intake Sluice	
- Orifice Size	B1.25m × H1.0 m × 2 sets
- Sill Elevation	EL 2.900 m
- Gate Type	steel slide gate
- Hoisting System	manually driven spindle

#### Rating Curve of Intake Gate

(2)

The discharge from an intake sluice is controlled by the gate opening and water level in the river. In the design of sluice, the flow condition becomes a submerged flow due to the high elevation of the irrigated paddy as well as the water level of the connecting canal. The rating curves of the canal immediately downstream of the right and left intakes are estimated by non-uniform flow, as shown in Fig. 8.2.2. Based on the aforementioned conditions, the intake discharges at the right and left banks are estimated, as shown in Tables 8.2.1 to 8.2.2 and in Figs. 8.2.3 to 8.2.4, where the gate openings are given as parameters.

Since all intake gates are 1.0 m high, the gate opening "a=0.2 m" means 20% open condition and the gate opening "a=1.0 m" means fully open. Two gates will be installed at each bank and it is assumed in the calculation that the two gates are simultaneously operated.

The crest elevation of the inflatable rubber-made dam as inflated is EL 4.060 m. The deflation water level is at EL 4.87 m. Therefore, the water level in the river for irrigation water intake fluctuates between EL 4.060 m and EL 4.87 m.

#### (3) Operation Rule

The problem on actual operation of intake gates is how to adjust the gate opening to allow intake of irrigation water at a given water level in the river while water requirements vary seasonally. Maximum water requirements are estimated at 1.68 m³/s for the left irrigation area in the future, and 2.09 m³/s for the right.

For a given water level, the gate openings for intake of required water are as shown in Table 8.2.3 and Figs. 8.2.5 to 8.2.6. Water level (H1) in the river is observed directly on the control board in the control house, or gauged by staff gauge at the inlet as water depth (h1) from sill elevation. In the said procedure, in order to intake the maximum water requirement of  $1.68 \text{ m}^3$ /s at the left bank at the river water level of H1=4.20 m

(h1=1.30 m), the gate opening should be set at a=0.65 m using Table 8.2.3. Similarly, for the intake water of 2.09 m³/s at the right bank at the same water level, the gate opening should be set a=0.66 m.

The operation of intake gates and conditions of water balance in dry season (95% discharge in annual flow regime) and usual time (50% discharge) are shown in Fig. 8.2.7. At 95% discharge time, the gate opening should be 74% at the right bank and 73% at the left bank. At 50% discharge time, the gate opening should be 45% at both banks. Since the gate opening in usual time at present is set at 50% with the existing structure, almost the same operation will be required for the new gate with the inflatable rubber-made dam. The proposed operation scheme is illustrated in the form of a flow diagram in Fig. 8.2.8.

(4) Function and Manpower for Operation

The operation of intake gates will almost be similar as the existing ones except the small work of inflating the rubber body, because the sizes of new inlets will be almost the same as the existing ones. Conversely, the operation of spillway slide gates on head works, which used to be operated in flood time, will be not necessary.

At present, the operation and maintenance for Bandar Sidoras Intake Weir and intake gates are being carried out by three personnel from the Irrigation Section, Project Office of Water Resources Development. The operation for new facilities could also be performed by a similar organization although initial training will be required.

#### 8.2.2 Retarding Channel

The upstream section of the Doli River Weir will become a retarding channel to be inundated in flood time by the diversion weirs; while, in usual time, the retarding channel area can be utilized as a wide open space for multipurpose uses such as park and sports facility.

The left side slope of the retarding channel will be reclaimed into staged terraces and divided into four zones, as presented below, on account of the frequency of inundation. Among them, three zones, Zone A to Zone C, will be multipurpose utilization zones and Zone D will be a residential area after raising work of the ground.

Zone	Area (m ² )	Ground Elevation (EL m)	Inundation Occurrence Probability	Utilization Plan
Zone A	18,400	32.6	1 time/year	Park Area and Sports
Zone B	27,140	31.5	10 times/year	Free Open Park Space
Zone C	9,040	28.0~29.0	20 times/year	Waterfront and Walking
Zone D	33,760	35.0	No inundation	Residential

The frequency of inundation at Zone A is once a year, ten times a year at Zone B, and 20 times a year at Zone C. Zone A is recommended for use as sports ground, tennis court, recreation park or parking lot; Zone B for cycling road, walkway, picnic spot, or free open space for sports; and Zone C for waterfront activities, fishing space or walkway.

#### Safety for Users

The basic conditions for the multipurpose utilization of the retarding channel are to assure the safety of facility users and to facilitate restoration after inundation by flood, because the rising speed of water level is high. With the design flood hydrograph of a 25-year return period, it takes only 54 min for water level to rise 3.5 m from Zone C (EL 28.000 m) to Zone B (EL 31.500 m), and 40 min from Zone B to Zone A (EL 32.600 m).

People in the retarding channel shall evacuate promptly when flood occurs. An evacuation route is provided sequentially from Zone C to Zone B to Zone A and to the outside. The slope between one zone and another zone is designed with a gentle gradient (1:5) to facilitate the smooth evacuation.

It is necessary to set up warning signboards at appropriate places in each zone in order to disseminate information and warning to people in and around the retarding channel in flood time and lead them for prompt evacuation. On the warning signboard, information on precise standing location, zones, facilities, inundation area and frequency, rising speed of water level, evacuation route, etc., shall be indicated. These signboards should be made of durable material and the painting on the board should be preserved.

#### **Reminder on Facilities**

The park facilities to be constructed in the retarding channel shall not be obstacles to sanitation or maintenance. Facilities such as lavatory or stall which may cause sanitary problems, or such management office that may cause maintenance problems in flood time shall not be built in the retarding channel.