Package 1 3.1 Sluiceway
KAMAL DRAINAGE CHANNEL

		Į,	0							00013	,			
nem Description	100	7	Supp.							200				
		Package 1	Total	ू जिल्ला	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 1			٠,	man	1-	Į.	-
No.					SKM-1L KM 20+16m	SKW-1L SKW-2L SKW-3L SKW-4L SKW-5L SKW-6L SKW-7L SKW-3L SKW-1R SKW-2R KM-2R KM-2R SKW-1R SKW-2R KM 20+10m KM 20+10m KM 20+10m KM 31+50m KM 38+3m KM 42+7m KM 40+3m KM 17-20m KM 21-6m	SKM-31. KM 26-2m K	SKM-4L (M 29+19m)	SKM-5L M 31+56m	SKM-6L KM 38+3m	SKM-7L KM 42+7m	SKM-81. CM 46+35m/k	SKM-1R CM 17-20m)	SKM-28 CM 21 +6m
3.1 Sluiceway														
/ 01 Coffering and care of water including dewatering	L.S.	***************************************					i					-		
/ 02 Excavation including trench cut	cu.m	2,493		1.594	185	187	167	111	133	76	8	124	103	8
/ 03 Backfilling with selected materials	Cu.m	614		453	53	72	91	32	39	20	26	35	27	28
/ 04 Geo-textile, t-1.5 mm	E.P.	23		13	-	1		1	1	1	1	1	1	1
/ 05 Gravel bodding	cu.m	157		135	4	\$	6	11.	11	22	22	10	13	11
/ 06 Cobble/rubble filling	Cir.m	41		31				\$				5	9	8
/ 07 Wet cobble/rubble masonry, type 2	CG.M	334		285	6	11	18	24	24	44	45	22	28	25
/ 08 Gabion mattress, 3.0x1.5x0.5 m, PVC coated wire	G.B.	772		<u>2</u>	14	15	12	12	13	12	11	:2	14	13
/ 09 PVC pipe for weep hole, diam. 50mm	lín.m	37		25	2	3	2	2	C 1	F*	1	2	2	64
/ 10 Bitumen coating	Eq.m	4		4						2	2			
/ 11 Furnishing steel sheet pile, YSPF, W- 400mm	sq.m	354		247	50	19	12	16	17	26	25	17	25	18
/ 12 Driving of steel sheet pile, for Item No. 3.1/11	sq.m	354		247	20	61	12	16	17	26	25	17	25	38
/ 13 Furnishing RC Piles, 250 mm x 250 mm	lin.m	1,703		1,113	126	8	72	72	72	72	72	72	135	56
/ 14 Driving of RC piles, for Item No. 3.1/13	ii.m	1,703		1,113	126	96	7.2	72	72	72	72	72	135	\$6
/ 15 Concrete, type 3, for blockout concrete	Cir.m	24		-14	1	1	1	1	1	1	1	-	2	s ⊷1
/ 16 Concrete, type 4, for sluicoway structures and revetment	ca.m	377		273	62	22	14	20	23	19	15	22	33	22
/ 17 Concrete, type 5, for leveling	cu.m	57		42	3	3	1	4	S	m	33	4	4	4
/ 18 Base mortar	cu.m	84		71	2	3.	S	8	9	11	11	S	7	\$
/ 19 Form, type F1, for Item Nos. 3.1/15 and 3.1/16	m.ps	1,944		1.472	133	108	52	126	127	114	901	118	159	126
/ 20 Form, type F2, for Item Nos. 3.1/15 and 3.1/16	rg.m	474		341	38	25	25	З	62	52	19	53	35	26
/ 21 Reinforcing bars, for Item Nos. 3.1/15 and 3.1/16	ķ	44,216		32,157	3,417	2,586	1,563	2,395	2.750	2,223	1,760	2,642	3,901	2,601
/ 22 Joint bars, diam, 25mm, L-1m	nos.	10		01						5	S	•••	-	
/ 23 PVC waterstop, W-200mm	lin.m	10		10						3	5			
/ 24 Rubber joint filler, 1- 10 mm	m.ps	45		22	\$	ŝ	3			2	2			
/ 25 Steel slide gate including hoist, guide frame, accessories and spare parts, W-0.7 m x H = 0.7 m	set	1		1							p-4			
/ 26 Steel slide gate including hoist, guide frame, accessories and soare parts, W0.8 m x H 0.8 m	sct	7		3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

Package 1 3.1 Sluiceway KAMAI DRAINAGE CHANNI

KAMAL DRAINAGE CHANNEL														
Tram	Unit	Total	Stage 1							Stage 2	2			
		. م	٠	Total							main			
					SKW-11	SKW-11 SKW-21 SKW-31 SKW-41 SKW-51 SKW-51 SKW-71	SKW-3L	SKM-AL	SKM-SL	SKM-6L		SKW-8L	SKW-8L SKM-1R SKM-2R	XX.3X
NO			-		KM 20+16n	XM 24+35m	КМ 26+2m	K.M.29+19m	KM 31+56m	KM 38+3m	KM 42+7m	KM 46+35m)	KM 20+16m KM 24+18m KM 20+2m KM 20+19mKM 31+36m KM 38+3m KM 42+7m KM 46+18m KM 17-20m KM 21+6m	M 21+6m
27 Steel slide gate including hoist, guide frame, accessories and some parts. W= 0.9 m x H = 0.9 m	3%	1	-											
28 Steel slide gate including hoist, guide frame, accessories and some parts. W= 1.0 m x H = 1.0 m	set	4		6					-			-		
Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1.1 m x H = 1.1 m	ž	3	:	3				1 .					7	
30 spare parts. W-1.2 m x H - 1.2 m	set		2	2					,					-
Steel slide gate including hoist, guide frame, accessories and spare parts, W-1.3 m x H - 1.3 m	32	-		-						:- :				
Seed slide gate including hoist, guide frame, accessories and space parts. We 1.5 m x H = 1.3 m	set					:	-4							
Steel flap gate including guide frame, accessories and spare agrs. W= 0.4 m x H = 0.4 m	36.	\$					*	1						
34 Timber stoplog, W = 0.4 m x H = 0.4 m	sct										•			
35 Timber stoplog, W = 0.7 m x H = 0.7 m	set			_				-			-		- -	
36 Timber stoplog, W = 0.8 m x H = 0.8 m	ន		_											
37 Timber stoplog, W = 0.9 m x H = 0.9 m	set													
38 Timber stoplog, W = 1.0 m x H = 1.0 m	set			-										
39 Timber stoplog, W → 1,1 m x H = 1.1 m	Sct				 	-								
40 Timber stoplog. W = 1.2 m x H = 1.2 m	រូវ វ				_	_							-	
41 Timber stoplog, W = 1.3 m x H = 1.3 m	SCI			_										
42 Timber stoplog, W = 1.5m x H = 1.3 m	set				_		-						1	
43 Maintenance tool for gate, stoplog and hoist	SCL				7									

Package 1 3.1 Sluiceway KAMAL DRAINAGE CHANNEL

-	The section of	Unit					Stag	Stage 3	_
<u> </u>		<u> </u>				Total	,	main	
Ž			SKM-3R SKM-4R	SKM-4R	SKM-SR	****	Total	SKM-6R	SKM-778
			KM 27+42mKM 40+32m KM 45+6m	KM 40+32m	KM 45+6m			KM 50+31mKM 54-26m	KM 54-26m
[2	Sluiceway								
9	1	L.S.							
7 02	2 Excavation including trench cut	Cu.m	8	98	126	-668	250	113	137
გ /		Cu.m	25	31	45	161	98	38	48
\$	4 Geo-textile, t=1.5 mm	m.ps		1	1	10	2	1	1
2	5 Gravel bedding	Ser.m	12	. 1	4	22	7	3	4
8		E.I.S	Ş			10			
/0/	7 Wet cobble/rubble masonry, type 2	CO.TH	25	2	8	49	. 15	7 7	8
8/	1 .	e.m	13	10	13	113	27	13	4.
8/	1	lin.m	2	7	2	12	4	2	2
<u>e</u>	3. Bitumen coating	w bs				1	-	-	
E	Fumishing steel sheet pile, YSPF, W- 400mm	ă. E.	18	16	18	101	37	18	13
7 12	2 Driving of steel sheet pile, for Item No. 3.1/11	sq.m	18	16	18	107	37	18	19
7.33	3 Furnishing RC Piles, 250 mm x 250 mm	lin.m	112	9	96	590	180	96	84
7.	4 Driving of RC piles, for Item No. 3.1/13	lin.m	112	99	%	5% 2%	180	8	84
/ 15		cu.m	н	1	1	10	2		1
Ē	16 Concrete, type 4, for sluiceway structures and revetment	cu.m	23	15	91	104	35	9!	19
12	7 Concrete, type 5, for leveling	cu,m	4	2	2	15	4	2	7
/ 18	8 Base mortar	cu.m	9	1	2	13	4	2	63
61 /	9 Form, type F1, for Item Nos. 3.1/15 and 3.1/16	sq.m	129	98	88	472	176	85	91
8/	3 Form, type F2, for Item Nos. 3.1/15 and 3.1/16	m.ps	82	15	21	133	43	8	23
/ 21	1 Reinforcing bars, for Item Nos. 3.1/15 and 3.1/16	8	2,687	1.727	1,905	12,059	4,110	1,861	2,249
7	2 Joint bars, diam. 25mm, L-1m	nos.	:						
/ 23	3 PVC waterstop, W-200mm	lin.m							
124	4 Rubber joint filler, t- 10 mm	sq.m			S	23	01	5	5
7.25	Sicel slide gate including hoist, guide frame, accessories and spare parts, W= 0.7 m x H = 0.7 m	Şe							
72		set		1	1	4	1	-	
	State party, 17 - 515 the 5 to - 515 the								

Package 1 3.1 Sluiceway
KAMAL DRAINAGE CHANNEL

		İ							
Item	Description	C Dit					Sta	Stage 3	
						Total		main	
ò			SKM-3R	SKM-4R	SKW-5R		Total	SXM-6R	SKM-7R
		E_	M 27+42m	KM 27+42mKM 40+32m KM 45+6m	KM 45+6m			KM 50+31 m KM 54-26m	KM 54-26
/ 27	Steel slide gate including hoist, guide frame, accessories and spare parts, W= 0.9 m x H = 0.9 m	Se C				-			
/ 28		ž				-			-
/ 29		ប្ត			-				
/ 30		ŞG	:						
/ 31	Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1.3 m x H = 1.3 m	. Sc	1				1.1		
/ 32	Steel slide gate including hoist, guide frame, accessories and spare parts, W-1.5 m x H - 1.3 m	ŞÇÇ							
/ 33		ñ				4			
/ 33	Timber stoplog, W = 0.4 m x H = 0.4 m	žč				1			
/ 35		358							
%	Timber stoplog, W = 0.8 m x H = 0.8 m	ij							
/33	Timber stoplog, W = 0.9 m x H = 0.9 m	set				. 1			
/ 38	Timber stoplog, W - 1.0 m x H - 1.0 m	ŞĞ							
/ 39	Timber stoplog, W = 1.1 m x H = 1.1 m	Set							
4		set							
/ 4]	41 Timber stoplog, W = 1.3 m x H = 1.3 m	33	1						
1 42	/ 42 Timber stoplog, W = 1.5m x H = 1.3 m	ાગ્ડ			,				
/ 43	Maintenance tool for gate, stoplog and hoist	Sei							

Package 1 3.1 SLUICEWAY KAMAL DRAINAGE CHANNEL (BRANCH)

						Cong. 2				
Treatibular	5				**********			•	****	
						branch				
No.		Total	SKE-IL	SKE-2L	SKE-3L	SKE-4L	SKE-SL	SKE-IR	SKE-2R	SKE 3K
			KE01+5m	KE 12-32m	KE 13+0m	KE 25-5m	KE 31-43m	KE21+5m	KE01+5m(KE 12-32m)KE 13+0m(KE 25-5m)KE 31-43m KE 21+5m(KE 25-5m)KE 31+0m	XE 31+0=
3.1 Slukeway										
/ 01 Coffering and care of water including dewatering	3									
/ 02 Excavation including trench cut	G.B	\$	66	109	103	47	70	8	62	69
/ 03 Backfilling with selected materials	e.m	75	7	01	6	14	7	9	15	7
/ 04 Geo-textile, 1=1.5 mm	& E	80	-	-	-	1	1	1	1	1
/ 05 Gravel bedding	S	15	Ġ	7	2	1	2	2	1	2
/ 06 Cobbic/rubbic filling	G.m	OI.		'n	S			Assess and the		
707 Wet cobble/rubble masonry, type 2	E	34	W	S	\$	1	9	5	1	9
/ 08 Gabion mattress, 3.0x1.5x0.5 m, PVC coated wire	cu.m	98	12	11	11	6	11	12	6	11
709 PVC pipe for weep hole, diam. 50mm	Lin.m	8		1	1	1	1	1	1	1
/ 10 Bitumen coating	sq.m									
/ 11 Furnishing steel sheet pile, YSPF, W= 400mm	8 E	2	0.	6	6	16		01.	16	
/ 12 Driving of steel sheet pile, for Item No. 3.1/11	λ. Ε	22	10	6	6	16		10	16	
/ 13 Fumishing RC Piles, 250 mm x 250 mm	in.m	410	84	77	42	70	20	56	112	20
/ 14 Driving of RC piles, for Item No. 3.1/13	lim.m	1 410	.48	42	42	70	20	\$	112	20
/ 15 Concrete, type 3, for blockout concrete	Cu.m	8	1	1	1	1	1	1	1	14
/ 16 Concrete, type 4, for sluiceway structures and revelment	G.B	69	6	6	8	12	3	8	17	3
/ 17 Concrete, type 5, for leveling	co.m	11	:I · ·	1	1	2	1	1	3	1
/ 18 Base mortar	cn.m	6	2	1	1		1	1	. 1	1
/ 19 Form, type F1, for Item Nos. 3.1/15 and 3.1/16	ur-bs ∣	296	37	33	33	64	4	. 33	82	7
/ 20 Form, type F2, for Item Nos. 3.1/15 and 3.1/16	m.ps	8	15	8	8	13	7	12	82	7
/ 21 Reinforcing bars, for Item Nos. 3,1/15 and 3,1/16	돲	7.949	1,028	974	948	1,381	357	915	1,989	357
/ 22 Joint bars, diam. 25mm, L-1m	nos.									
/ 23 PVC waterstop, W=200mm	lin.m			-						
/ 24 Rubber joint filler, t- 10 mm	т.рх	13	3	1	1	3		2	က	
/ 25 Steel slide gate including hoist, guide frame, accessories and spare parts, W+0.7 m x H + 0.7 m	33									
/ 26 Seed slide gue including hoist, guide frame, accessones and spare parts, W-0.8 m x H = 0.8 m	×	69			:	1		1		
	l									

Package 1 3.1 SLUICEWAY
KAMAL DRAINAGE CHANNEL (BRANCH)

Ľ		Decomplish	Unit	-				Stage 3	:			
-	3		,									
	٠.							branch				
	, Z			Total	SKE-1L	SKE-31	SKE-3L SKE-3L		SKE-41, SKE-51.	SKEIR	SICE-2R SKE-3R	SKE-3R
					XE01+5m	КЕ 12-32m	XE 13+0m	KE 25-5m	KE 01+5m KE 12-32m KE 13+0m KE 25-5m KE 31-43m KE 21+5m KE 25-5m KE 31+0m	KE21+5m	XE 25-5m	KE 31+0n
L	127	Steel slide gate including hoist, guide frame, accessories and spare parts, W= 0.9 m x H = 0.9 m	Set	1							. .	
1	83	/ 28 Steel slide gate including hoist, guide frame, accessones and some parts. W- 1.0 m x H = 1.0 m	15%						17.			
1	53	Steel slide gate including hoist, guide frame, accessories and spare parts. We 1.1 m x H = 1.1 m	ze.									
L	8	Steel slide gate including holst, guide frame, accessories and spare parts. W= 1.2 m x H = 1.2 m	set		-							
L	5	/ 31 Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1.3 m x H = 1.3 m	set									1 N - -
<u></u>	32	/ 32 Steel slide gate including hoist, guide frame, accessories and	set			:						
l	33	/ 33 Steel flap gate including guide frame, accessories and spare	sci	4		1	1		r-4			
L	£	34 Timberstoplog, W = 0.4 m x H = 0.4 m	set					1				
L	33		set									
<u> </u>	36	Timber stoplog, W = 0.8 m x H = 0.8 m	set									
<u>. </u>	37	37 Timber stoplog, W = 0.9 m x II = 0.9 m	set	1								
	38	/ 38 Timber stoplog, W = 1.0 m x H = 1.0 m	set	~								
J	39	Timber stoplog, W = 1.1 m x H = 1.1 m	13 8									
	8	/ 40 Timber stoplog, W = 1.2 m x H = 1.2 m	set		-				:			
	17,	Timber stoplog, W = 1.3 m x H = 1.3 m	set									
	, 42	/ 42 Timber stoplog, W = 1.5m x H = 1.3 m	ន									
Ľ	43	1 43 Maintenance tool for gate, steplog and hoist	set									
١												

Package 2 3.1 Sluiceway TANJUNGAN DRAINAGE CHANNEL

	-					>	2	×	×	×
6 5		5	relo!		2					
				TM 25-13m	TM 25-13m TM 30-10m TM 30+16m TM 33+13m TM 25-13m TM 30+3m TM 35+0m	I'M 30+16m	TM 33+13m	TM 25-13m	TM 30+3m	IM 35+0m
										 .
		L.S.								
/ 02 Excavation including trench cut		E.B	538	137	21	81	63	611	36	81
/ 03 Backfilling with selected materials		Cu.m	19	13	7	11	12	10	7	4
/ 04 Geo-textile, t=1.5 mm		sq.n	5			1	·1·	1		
/ 05 Gravel bedding		8. 8.	82	4	6	n	3	3	2	2
/ 06 Wet cobble/rubble masonry, type 2		ca.m	47	80	7	6	2	L	4	5
/ 07 Gabion mattress, 3.0x1.5x0.5 m, PVC coated wire		Gu.m	71	13	8	∞	8	13	10	11
/ 08 PVC pipe for weep hole, diam. 50mm	- 1	lin.m	7	2		2	1			
/ 09 Furnishing steel sheet pile, YSPF, W= 400mm		E. S.	20	10				10		
/ 10 Driving of steel sheet pile, for Item No. 3.1/09		E.	20	01			:	10		
/ 11 Fumishing RC Piles, 250 mm x 250 mm	-1	in.m	512	72	72	87	48	72	99	144
/ 12 Driving of RC piles, for Item No. 3.1/11		m.m.	512	72	72	48	8 4	72	95	144
/ 13 Concrete, type 3, for blockout concrete		cu.m	80	1	2	-	1	-1	1	1
/ 14 Concrete, type 4, for sluiceway structures and revetment	tment	8 8	62	01	01	9	9	10	7	13
/ 15 Concrete, type 5, for leveling		cu.m	11	1	1	1	1	1	3	3
/ 16 Base mortar		G.:n	12	2	2	2	2	2	**4	-1
/ 17 Form, type F1, for Item Nos. 3.1/13 and 3.1/14		ag.m	214	17	22	61	81	39	31	4
/ 18 Form, type F2, for Item Nos. 3.1/13 and 3.1/14		m.ps	113	41	23	14	13	16	-	19
/ 19 Reinforcing bars, for Item Nos. 3.1/13 and 3.1/14		κg	6,934	1,125	1,118	708	669	1,093	741	1,450
/ 20 Rubber joint filler, := 10 mm	i	ë.	4	2				2		
/ 21 Steel slide gate including hoist, guide frame, accessories and	sones and	ă	4	_		7				
/ 22 Steel slide gate including hoist, guide frame, accessories and snare narts. W= 1.0 m x H = 1.0 m	sories and	Š	3		7.		-			
/ 23 Steet slide gate including hoist, guide frame, accessories and spare parts. W= 1.1 m x H = 1.1 m	sories and	Ş								:
/ 24 Steel flap gate including guide frame, accessories and spare parts, W= 0.4 m × H = 0.4 m	nd spare parts,	¥	-	:					-	

Package 2 3.1 Sluiceway
PIK JUNCTION DRAINAGE CHANNEL

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	ģ			-	NN CASCI
	3.1	Sluiceway	:		
٠.	ē		ĭ.S.		
	707	Excavation including trench cut	cu.m	11	11
	<u>ှ</u>	1	cu.m	=	11
	2	Geo-textile, tel.5 mm	ж.рх т.	1	1
	7.8	Gravel bedding	นากว	4	4
	8/	Wet cobble/rubble masonry, type 2	cu.m	10	10
	/ 07	Gabion mattress, 3.0x1.5x0.5 m, PVC coated wire	cu.m	7	7
. :	80 /	PVC pipe for weep hole, diam. 50mm	lin.m	2	2
	60 /	Fumishing steel sheet pile, YSPF, W- 400mm	urbs		
	으 	Driving of steel sheet pile, for Item No. 3.1/09	w-ps		
	= /	Fumishing RC Piles, 250 mm x 250 mm	lin.m	8#	\$4
	7 22	Driving of RC piles, for Item No. 3.1/11	lin.m	8#	848
	/ 13	Concrete, type 3, for blockout concrete	C		
	7 7	Concrete, type 4, for sluiceway structures and revetment	G	6	6
	/ 15	Concrete, type 5, for leveling	cu.m		-
	/ 16	Base mortar	cu.m	2	2
	/ 17	Form, type F1, for Item Nos. 3.1/13 and 3.1/14	SQ.TD	14	14
	/ 18	,	m.ps	15	15
	61 /	Reinforcing bars, for Item Nos. 3.1/13 and 3.1/14	kg	086	086
٠	/ 20		ag-m		
	72	Steel slide gate including hoist, guide frame, accessories and spare parts, W= 0.8 m x H = 0.8 m	ž		
	7.22	1	sct		
	/ 23		set		
	/ 24	1	set		
			-		

Package 3 = 3.1 SLUICEWAY GEDE/BOR DRAINAGE CHANNEL

GEDE/BOR DRAINAGE CH	ANNEL							
Item	Description	Unit	Total	\$GM-IL	SGM-2L	SGM-3L	SGM-1R	SGM-2R
No.	*	1		GM 12+0m	GM 145m	GM 15+24m	GM 04+44m	GM 12+0m
		11						
3.1 Stuiceway		. }						
/ 01 Coffering and care of w	ater including dewatering	L.S.						
/ 02 Demolishing, hauling a	nd disposing existing concrete structures	cu.m	20		20			
	nd disposing existing asphalt/masonry	cu.m	38		38			
/ 04 Excavation including tr		· [76			944	136
	··	CU.M	590	76	153	90	141	130
/ 05 Backfilling with selecte	d materials	m.vo	121	21	49	25	14	12
/ 06 Geo-textile, t=1.5 mm		SQ.m	4			l	1	<u>1</u>
/ 07 Sod facing		<u>50.m</u>						
7 08 Gravel bodding	<u> </u>	CO.M	9	1		2	3	3
/ 09 Cobble/rubble filling	<u> </u>	cv.m						
/ 10 Wet cobble/rubble mase		รง.ศเ	21	2		5	7	7
/ 11 Gabion mattress, 3.0x1	5x0.5 m, PVC coated wire	CO.M	58	10	10	12	13	13
/ 12 Gabion mattress, 3.0x1	5x0.5 m, galvanized wire	cv.m	36	10			13	. 13
113 PVC pipe for weep hole	, diam. 50mm	lin.m	6	1		1	2	2
/ 14 Bitumen coating		sq.m						
115 Furnishing steel sheet p	ite, YSPF, W= 400mm	sq.m	100	16	43	21	10	10
/ 16 Driving of steel sheet p		sq.m	100	16	43	21	10	10
/ 17 Furnishing RC Piles, 25	· · · · · · · · · · · · · ·	lin.m	474	96	162	120	48	48
/ 18 Driving of RC piles, for	~~~~	lin.m	474	96	162	120	48	48
/ 19 Furnishing RC Piles, 30		lin.m						10
/ 20 Driving of RC piles, for		lin.m			· · · · · · · · · · · · · · · · · · ·			
<u> </u>	** ***	·11					-	
/ 21 Concrete, type 3, for bl		cv.m	7	1	3	1		1
	ilceway structures and revetment	CU.M	98	17	44	17	10	01
123 Concrete, type 5, for le	veling	Cu.m	11	3	3	3	<u> </u>	1
/ 24 Base montar		cn.m	- 10		: 4	1	2	2
/ 25 Form, type F1, for Item		sq.m	364	97	101	85	39	42
/ 26 Form, type F2, for Item		sd-m	175	20	98	23	16	18
127 Reinforcing bars, for It		kg	11,546	1,945	5,279	2,019	1,132	1,171
128 Joint bars, diam. 25mm		nos.				<u> </u>	. 5 :	ş
129 PVC waterstop, W=200	Omm	lin.m			÷.			
130 Rubber joint filler, t= 1	0 mm	sq.m	19	4	6	4	2	3
/ 31 Sub-base course		cu.m						- 1
/ 32 Base-course		cu.m						
/ 33 Asphalt pavement / 34 Furnishing and installing	ag trans	sq.m kg		·				
/ 35 Steel galvanized pipe, of		kg						
/ 36 Steel galvanized pipe, o		kg						
/ 37 Embedded metal for sto		kę						
/ 38 Steel slide gate including spare parts, W= 0.8 mg	ng hoist, guide frame, accessories and	set	- 4	1		1 1	: 1	1
Start elida pata includi:	ng hoist, guide frame, accessories and	·	:	 -			 	
spare parts, W= 0.9 m		s et		**	•			
	ng hoist, guide frame, accessories and	set	2		2			
spare parts, W= 1.0 m:				ļ:			 	
spare parts, W= 1.1 mg	ng hoist, guide frame, accessories and	set	. :			·	- i	
Stead clide gate include	ng hoist, guide frame, accessories and	1		:: <u></u>				
spare parts, W= 1.2 m:		ક્રા						
	ng hoist, guide frame, accessories and	set						
spare parts, W= 1.3 m:		_		ļ			ļ	
/ 44 Steel slide gate include spare parts, W= 2.3 m	ng hoist, guide frame, accessories and	set	i -	1				. :
/ 45 Timber stoplog, W = 2	3 m x H = 2.3 m	set		 		 	ļ	
1 46 Steel stand for portable		set						
	ng tools and slings for 2.3mx2.3m stoplo							
1		1		i	I	l	I	







Package 3 3.1 SLUICEWAY
SALURAN CENGKERENG DRAINAGE CHANNEL

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Sluiceway Coffering and care of water including dewatering Demolishing, hauling and disposing existing concrete structures structures Execusion including trench cut		Sluiceway C	CM 05-5m CM	CM 16412mCM 20410m	-10m CM 27-21e	CM 27-21m CM 30-0m	CM 37+30m	CM 4-1-2	CM 40+34mC	CM 15-19m CI	O 64 60 0	CM 26+1m Q	CM 30+0m CM 37+0m	Om CA 40-30miCA	Om C4-0-53
Sluiceway Coffering and care of water including dewatering Demoishing, hauling and disposing existing concrete sructures Demoishing, hauling and disposing existing asphalt/maxonry structures Excavation including trench cut				losi zne Car zo	7-17 W 71-7				J 54 -/- E					_	; E
Sluiceway Coffering and care of water including dewatering Demolishing, hauling and disposing existing concrete structures Demolishing, hauling and disposing existing asphaltmaxonry structures Excavation including trench cut											_	_			
Coffering and care of water including dewatering Demolishing, hauling and disposing existing concrete structures Structures, hauling and disposing existing asphaltmasonry structures. Excavation including trench cut						_			-	-	-			-	_
Demolishing, hauling and disposing existing concrete structures Demolishing, hauling and disposing existing asphaltmasonry structures Excavation including trench cut		-	-	-] 									
Demotishing, having and disposing existing asphaltmasonry structures Excavation including trench cut	45	. 45													
Excavation including trench cut	74	7.4							-						
	3,035	1.430	24	133	112 86	5 146	102	154	8	185	95	0/	120	91 9	93 104
7 05 Backfilling with selected materials	710	308	24	36	30	9	24	47	31	30	10	7	33	23 2	24 35
Geo-textile, twl. 5 mm	1.5		-	~			1	1	-			1	1	1	.,
	62	62								:					_
guip		73	9	15	12 20	12	12	12	1	4	23	81	1.2	12 1	=
/ 09 Cobble/rubble filling	. 41			9	5	\$	\$	\$					5	5	5
/ 10 Wet cobble/rubble masonry, type 2		4	12:	32	27 42	25	35	52	2	6	45	37	56	26 2	25
/ 11 Gabion mattress, 3.0x1,5x0,5 m, PVC coated wire		73	8	14	13	8 13	12	13	11	14	8	7	13	12 1	12 10
/ 12 Gabion mattress, 3.0x1 5x0.5 m, galvanized wire cu.m												1	_		
13 PVC pipe for weep hole, diam, 50mm	33		3.[3	2	2 2	2	3	. 2	7	C4	7	7	(1	63
14 Bitumen coating sq.m	110	101				3			-		3	3		_	_
15 Furnishing steel sheet pile, YSPF, W= 400mm	162	\$		56	20 11	71	17	41	16	11	12	11	1.1	17	17 16
16 Driving of steel sheet pile, for Item No. 3.1/15	162	98		56	20 11	17	17	41	16	11	2	=	1.1	17	17 16
			- 24	105	44 28	3 48	72	22	8	26	33	83	7		
18 Driving of RC piles, for Item No. 3.1/17	626	:	24	105	44 28	3 48	72	12	8	85	82	8	2	84	88
/ 19 Fumishing RC Piles, 300 mm x 300 mm	980	999	- //										_	_	
20 Driving of RC piles, for frem No. 3.1/19	260	260	-							<u>.:</u>		:	_		
7.21 Concrete, type 3, for blockout concrete		æ	-	2		1 .1	1	-	-						-
/ 22 Concrete, type 4, for sluiceway structures and revetment cu.m.	836	552	12	33	125	10 21	23	24	9	12	=	2	73	33	21 18
/ 23 Concrete, type 5, for leveling	95	8,7	1.}	\$	\$	4	\$	\$	64				S	4	4
24 Base mortar		1	3	80	6 1	10 6	6	9		63	=	6	\$	٥	_
7.25 Form, type F1, for Item Nos. 3.1/21 and 3.1/22	2,230	059	20	188	44 64	-	139	134	68	46	29	. 59	139	131 12	_
7.26 Form, type F2, for Item Nos. 3.1/21 and 3.1/22	726	366	21	45	29 1	16 22	31	31	91	20	1.1	9;	53	23 2	
1.27 Reinforcing bars, for item Nos. 3,1/21 and 3,1/22	100,444	66,122	338	4,957 2,9	940 1.175	2.431	2,946	2,882	1.915	1.422	1,233	1,110	2,875 2.	2.525 2.522	2 2.051
/ 28 Joint bars, diam, 25mm, L-1m	89	20	_			9					9	٥			
29 PVC waterstop, W=200mm	65	50	_		_	\$				=	S	5			-
/ 30 Rubber joint filler, to 10 mm									4	. 2	7		-		-
/ 31 Sub-base course	22	22													-
		16		-					-	-				-	
/ 33 Asphalt pavement sq.m	2 3	<u>s</u>			-	_			1	- -					
44 Furnishing and installing traps	52	2			-									-	-
	22	: XX	-					_			-	4		$\left \right $	-

Package 3 3.1 SLUICEWAY
SALURAN CENOKERENG DRAINAGE CHANNEL

Description	Š	Total	Outlet	SCM-IL	SCM-2L	SCM-3L	SCM-41,	SCASE	Outlet SCM-1L SCM-2L SCM-3L SCM-4L SCM-5L SCM-5L SCM-7L SCM-3L SCM-1R SCM-2R SCM-3R	SCM-72	SCM-SL	SCM-1R	SCM-2R	SCM-3R	SCM-4R SCM-SR	SCMSR	SCM-6R - SCM-7R	SC-W-78
, o			luiceway	CM 05-5m	2 14 1 KJ	n CM 20+10+	CM 27-21m	CM 30+0m	Sluiceway CM 055m CM 16+12m CM 20+10m CM 20+10m CM 30+0m CM 31+30m CM 41+0m CM 43+10m CM 15+10m CM 16+1m CM 26+1m CM 30+0m CM 30+0m CM 43+30m CM 47+53m	CM 41-0m	CM 47+34m	CM 13-10m	CM IGAM	CM 26+1m	- MO-00: MO	M0+7. M0	M 43-30m C	M 47+53m
. 36 Steel galvanized pipe, diam, 3/4"	\$	-	7															
37 Embedded metal for stoplog groove	4 8	8	9		-				1				-			1		
38 Steel slide gate including hoist, guide frame, accessories and spare parts, W= 0.8 m x H = 0.8 m	¥	_		ŀ														-
39 Seed slide gate including hoist, guide frame, accessories and spare parts, W= 6.9 m x H = 0.9 m	ž,	1							 -	1	-							
Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1,0 m x H = 1.0 m	š	8				-		-						-	-	-	-	
Steel slide gate including hoist, guide frume, accessories and spare parts, W= 1.1 m x H = 1.1 m	š	7							-	-						-	-	
Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1.2 m x H = 1.2 m	35	4		-	ça		:		-			-	-			-	-	
Steel slide gate including hoist, guide frame, accessories and spare parts, W= 1.3 m x H = 1.3 m	ij	-		-					-				.:	-		-		
Steel slide gate including hoist, guide frame, accessories and spare parts, W= 2.3 m x H = 2.3 m	¥	5	\$									-				-		
/ 45 Timber stoplog, W = 2.3 m x H = 2.3 m	Sei	2	(1					†~	-	+		1	Ī	-	-	-		
/ 46 Steel stand for portable hanger	3	10	10								Ī		<u> </u>			+	1	Ī
/ 47 Portable hanger, handling tools and slings for 2.3mx2.3m stoplog	ž	2	2												+		-	T
			-	i	_				-	-				-	-			ſ

Package 3 3.1 SLUICEWAY

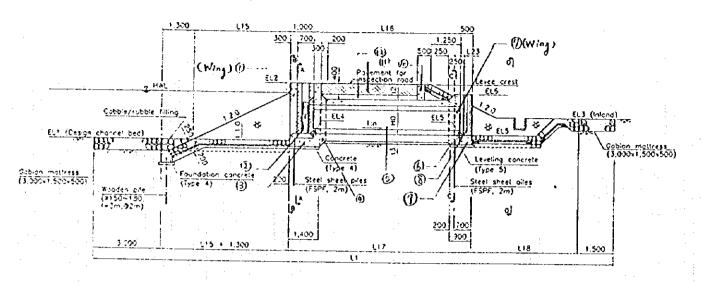
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liem No.	Description	Unit	Total
i.i	Sluiceway		· · · · ·
	Coffering and care of water including dewatering	L.S.	
	Demolishing, hauling and disposing existing concrete structures	cu.m	
101	Demolishing, hauling and disposing existing asphale/masonry	co.m	-
	Excavation including trench cut	cv.m	
104	Backfilling with selected materials	cu.m	
	Geo-textile, t=1.5 mm	sq.m	
		sq.m	
	Sod facing	cv.m	
	Gravet bedding Cobble/rubble filling	co.m	
	Wet cobble/rubble masonry, type 2	co.m	
		cu.m	
	Gabion mattress, 3.0x1.5x0.5 m, PVC coated wire	cu.m	
	Gabion mattress, 3.0x1.5x0.5 m, galvanized wire	lin.m	
	PVC pipe for weep hole, diam. 50mm		5
	Bitumen coating	sq.m	
	Furnishing steel sheet pile, YSPF, W= 400mm Driving of steel sheet pile, for Item No. 3.1/15	sq.m sq.m	
	Femishing RC Piles, 250 mm x 250 mm	lin.m	
	Driving of RC piles, for Item No. 3.1/17	lin.m	
	Fornishing RC Piles, 300 mm x 300 mm	lin.m	
	Driving of RC pites, for Item No. 3.1/19	lin.m	
	Concrete, type 3, for blockout concrete	cu.m	
	Concrete, type 4, for sluiceway structures and revelment	cv.m	-
	Concrete, type 5, for leveling	ເກ.ຫວ	
	Base mortar	ת.עי	
	Form, type Ft, for Item Nos. 3.1/21 and 3.1/22	sq.m	
126	Form, type F2, for Item Nos. 3.1/21 and 3.1/22	sq.m	
127	Reinforcing bars, for Item Nos. 3.1/21 and 3.1/22	kg	
	Joint bars, diam. 25mm, L=1m	nos.	
	PVC waterstop, W=200mm	lin.m	
	Rubber joint filler, t= 10 mm	sq.m	
	Sub-base course	cú.m	
	Base-course	cu.m	
	Asphalt pavement	sq.m	
	Furnishing and installing traps	kg	
	Steel galvanized pipe, diam. 1 1/4"	kg	
	Steel galvanized pipe, diam. 3/4"	kg	
1 37	Embedded metal for stoplog groove	kg	
/ 38	Steel slide gate including hoist, guide frame, accessories and	set	
-	spare parts, W= 0.8 m x H = 0.8 m	}	
1 39	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W=0.9 m x H = 0.9 m	<u> </u>	<u></u>
/ 40	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W-1.0 m x H-1.0 m	 _ 	.
J 41	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W= 1.1 m x H = 1.1 m	I	
7 42	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W= 1.2 m x H = 1.2 m		
7 43	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W= 1.3 m x H = 1.3 m		
/ 44	Steel slide gate including hoist, guide frame, accessories and	set	
	spare parts, W= 2.3 m x H = 2.3 m	 	
	Timber stoplog, W = 2.3 m x H = 2.3 m	set	
	Steel stand for portable hanger	set	
1 47	Portable hanger, handling tools and slings for 2.3mx2.3m stoplog	set	I '

Calculation formula for concrete volume

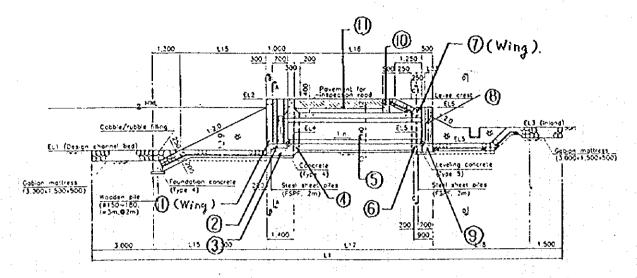
Lerce earth type, long conduit, I lane, Slide gate,



No.

- (119-0.55) +H, x2 x0.3 +0.2 x0.2 + = H, x2 +0./x0.4 + 1./9 x2 (1) = 0.1, 11, +1117-633) 10.06, 11, 1 0.1x 6.4x 619 x 3
- Colo(E12- E14+00) (10.151) . B.) (B. 103) 03.11.12- E14) (B. 10-26) 202 Be 0.2. (ELZ) **(2)** = (7.((1)-[14+62).(05.18.)-03[B.+0.3](ELX-FLY).(B.H.-2d2)x0.2 = Born 2 MEL7-FLY) 4-FLY)
- (Fer (3512) + 63+(11) F19+055) 09+1B+0555+2-03+2) +(EL2-E14+02) B. (EL2-E14)+03-(BH-24)+03 3 =13-18, 111) ((EL)-119-035) - A7,18,105)(EL2-EL4+0.2) - B, 1(EL2-EL4) x 0.3-18, H, -2/22 x 0.3
- (Be+2.1.10.4) 112112 1/12 1(He+12.11) 1021021/22 + 21, He+0.2 (1/11/2)1Be+21, 10.2 +24.10.3 = 0.04 (Pe+2.1.10.4) 11.113 +21.116.12 +1/2 +2.118. +2.118. +2.118. +2.118. +2.118. +2.118. (4)
- Flore to training, +210) -110- Por 101 de 12 3 10216- 05- 0.5) **(5)** for the tel report - other + dieste (16-16)
- (1916 115+ 67) ((8,+21) : Pollo 1 d x 2 } + (2)5+ (2)5 + (2)5 + (4) } , (FER-ELS + 0.4) x 2 **(b)** -1016 115 10.41 + 16-126.1 Felle 1 dress 1021 + 0.13125 + (EL6- E15 + 0.4) /2
- (LS + 11) Pertle + drd +2) x025 + (015 x0.4 + L21) x2 **(7)**
- 10.2" + 5 10.1 20.9 x 21 x (F16- F15) **(8)** TOREST > (TILE-FLS)
- (1) Partle 1 Diete in 04/13
- (Partien rall (EL2 EL4 He- te) 10.3 (Por) ti)
- 1 Parement (111-63-115-0.5110.4 + (8.+24) " (CH " 205) (B. 126) 189.
- **(3)** { (116 - 0.7) + (114 - 105) } . (\$12 - 814 - 110 - 6) , 1/2 . (8, 1) (,) = (21) 16-185) + (EL2-EL4-16: ta)+ 1/2 + (Be+211)
- (1) Water Lie , (Mex B. dxd 12)

Levee earth type, long conduit, 2 lanes. slide gate.



No.

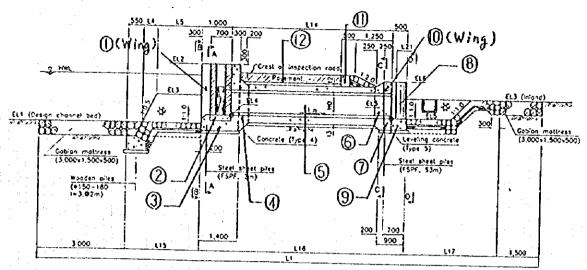
(Lig-0.55) (11,1210.3 + 0.210.2 1/2 H/12 + 0.110.4 1 Lig 12

= 0.6 H. (Lig-0.55) + 0.04 H. + 0.06 Lig.

- (0.7x(B+0.25x2) (EL2-EL4+0.2) -0.3 (B+0.3)(EL2-EL4)) +2-(B+0-2d) +0.2x2 Boro.2x(EL2-EL4) + 2-(B+0-2d) +0.2x2 Boro.2x(EL2-EL4) +0.2x2 EL4) +0.2x2 EL4)

- 6 20 {(Ho+tot) (Bo +to + to/2 + (0.45 to) + h.2/2 + (0.3 to/5) + h.2/2) BoHo+ dex 2 } = (L16 1.0) = 2 = ((Ho+to+to) 8.0 to + to/2 + 0.45 0.6 to 0.3 to) 8.0 to + dex 2 } x (L16 1.0)
- 6 2, (13, (\$16-EL5+1, +0.2) H.B. + d'+2}+0.25 =0.5 . { L13, (\$16-EL5+0.4) - H.B. + 2d' }
- (1524, -80+Horz + d2,212) + 0.25 + 0.15 + 0.4 + 1.21 +2. = (15+Horz - 28.Horz + 4d2) + 0.25 + 0.12 + 1.21
- (0.2° € +01 10.412 + 1/2103° 1 € +0.610.1) 1 (EL6 EL5) = 0.4071(EL6 - EL5)
- 9 = 0.5 1(2 + 0.2) + (3+)
- (EL2-EL4-H, -ti) , 0.3, (280+2ti+tu) = 0.3(EL2-EL4-Ho-ti)(28, +21, +ti)
- (116-03-1.75) + 0.4 x (2B, +2t, +t.)
 = 0.4 (116-2.05)(2B. +2t, +t.)
- (14) Water L/6, (B, H, 2 d)

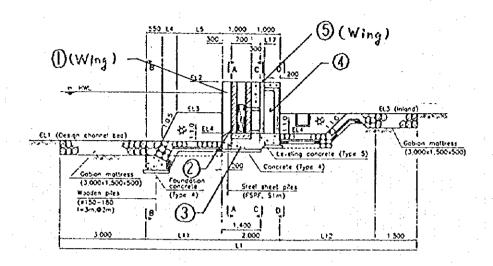
Levee parapet wall type, long conduit, I lane, slide gate.



No.

- 1 = 0.6 x 1.18 + H. + 0.04 + H. + 0.05 + 118.
- 2 07.(B.+1.1-0.6).(EL2-EL4+0.2)-0.3.(B.1 a/s.2)(EL2-EL4)-0.2.B.(FL2-EL4)-AxD.2 = 0.7.(B.+0.5)(EL2-EL4+0.2) - 0.3 (B.+0.3)
- 3 1.3 ((B. +1.1), H. 0.7 (B. +0.5) ((ELZ EL4+0.2) B. 103 ((ELZ-EL4) (B.H.-2d2) +0.3
- (B, +2t, +0.4) +0.2 × 0.3 × 1/2 × 2 + (Ho +t2+t3) +0.2 × 0.2 × 0.2 × 1/2 × 2 +2t, +6 × 0.2 +(d) + 1/2) (B +2t,) +0.2 2 = 0.04 (B + 2t, +0.4 + Ho + t2+t3) + 0.4 + 1 + 0.2 (£3+t3) × (B+2+1) + 0.4 d.
- (5) (B+2ti)(Ho+ti+ts)-HoBo+2d=3x(L14-10)
- 6 = 0.25 · {(EL6 EL5 + 0.4) · (B. +24.) · 2 B.H. + 2d2 } + 0.25 × 0.25 · 1/2 × 2 · (EL6 EL5 + 0.4) = 0.25 · {(EL6 - EL5 + 0.4) · (B. +24.) - B.H. + 2d2} + 0.0625 (EL6 - EL5 + 0.4)
- (1) 0.25 12 + L12 + (ELB-EL5 + 0.4) + (B.H. 2d2) x0.25 = 0.5 + L12 , (ELB-EL5+0.4) - (B.H. + 2d2) x0.25
- 9 = 12 x 0.4 x 0.5 x 2
- 1 = 0.8 1 L 20 x H2.
- (1) 0.3 x (B. 12 t1) x (EL2 EL4 H. t1-0.3)
- (2) Pavement 0.4 (114 03 0.5 1.25) x (8, +21,) = 0.4 ((14 - 2.05)(B, +21,)
- (14) Water LI4, (B.H. 2d)

Levee parapet wall type, short conduit, I lane, slide gate.



- No.

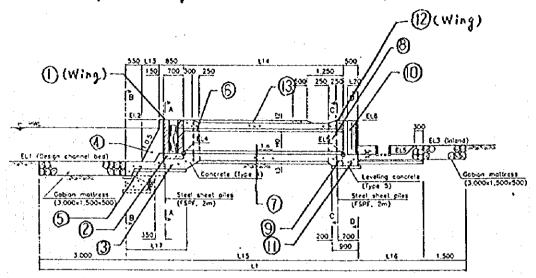
 H, 2430,312 + 0.31 0.21 1/2 + H, x2 + 0.120.4 x 13 x 2

 = 0.6 x H, x 13 10.04 H, 40.08 x 13
 - 2 0.7 (B. + 0.5) + (EL2 EL4 + 0.2) 0.3 x (B. + 0.3) (EL2 EL4) 0.2 x Box (EL2 EL4) Ara.2 = 0.7 (B. + 0.5) + (EL2 - EL4 + 0.2) - (0.5B. + 0.09 x EL2 - EL4) - Ara.2
 - 3 1.3 + (Bo+ KI)x H, 0.7 x (Bo+05) x (FL2 FL4 +0.2) B. x0.3 x (EL2 FL4) Ax03.
 - (BO +1.1) (ELX-EL4 + 0.4) / 0.7- (ELX- FL4 0.2) x BO x 0.7
 - 5 LHX HIX 0.25 YZ + 0.2 x 0.2 x 1/2 x H2 x 2 = 0.5 x H1 x H2 + 0.0 4 H2
 - 1 Water (E. 110 211) x 0.5.

* A= P. H. - 26

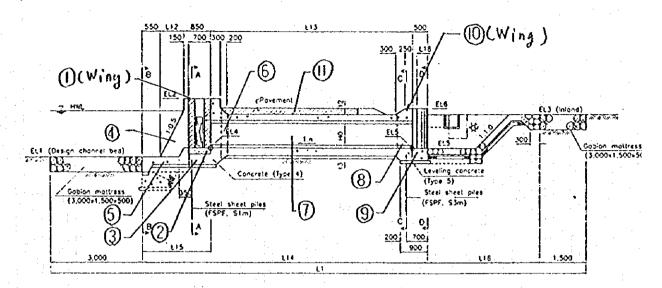
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Revetment type 1, long conduit, I lane, slide gate.



- No. $0 = \begin{cases} ((9-035) \cdot 0.3 \times 2 + 0.2 \cdot 0.2 \times 1/2 \times 2 + 0.2 \times (L4-L13+0.35-0.3) \times 2 \\ + 0.6 \times 1.9 \cdot 0.4 \times (L4-L13) 0.15 \end{cases} \times H_1 + 0.08(L4-0.35). \qquad G-0.2) \times 2.$
- (2) 07.18. +0.5)x(EL2-LE4+0.2) -0.3 +(3, +0.3)(EL2-EL4) Bo valx(EL2-FL4) Axo 2
- (3) 1.15 x (B.+ 1.1) x H1 0.7 x (B. + 0.5) x (EL2 EL4 +0.2) B. x a15 (EL2 EL4) Ax0.3.
- (4) LBx2x1B , 1/2x0.2x2
- (5) = { 6.25 + (0.55 + (13) + 0.15 A (EL4 FLI) + 1/2 + 0.25 A 0.25 } 1 L8 = { 6.25 + (13 + 0.095) (EL9 ELI) + 0.2} 1 L8
- 6 (B+2t, 10.4) x0.2x 0.25 x 1/2 x 1 + (11.1 t. + t.) 10.2 x 0.2 x 1/2 x 2 + 2t. H. x0.25 + 1 (4 t.) (81 2 5) 20.5 (B. + 2t, 10.4 + H. + t. + t.) + 0.5 t. H. + 0.25 (1. + t.) x (B+24.) + 0.5 d.
- (1) (18. +26.) +(11+16.+16.) -A) + (14-0.55-0.5)
- (Bo+) ti) + (EL6-EL5+0.4) -A] x0.25 + 0.25 × (0.4 ti) + 1/2 × (EL1-EL5+0.4) x)
 = (18,+) ti) (EL6-EL5+0.4) A) x0.25 + 0.25 (0.4 ti) × (EL6-EL5+0.4)
- (9) LEL6-EL5+0.4) + 0.25 x 2+L11 Ax 0.25 = 05 x L11x (EL6-EL5 +0.4) - 0.25.4
- (0.2° x + 0.4 vo.112)(ELB-ELS)
- 1 = 0.4 x LII
- (1) 0.4, HEXLIGX2
- (Brevin) = 0.4 1 (64 1.25 0.3) 1/8, +2 t, 1.
 - (B) Water Liter A = Lite(B.c.H. id')

Revetment type II , long conduit , 1 lane , slide gate .

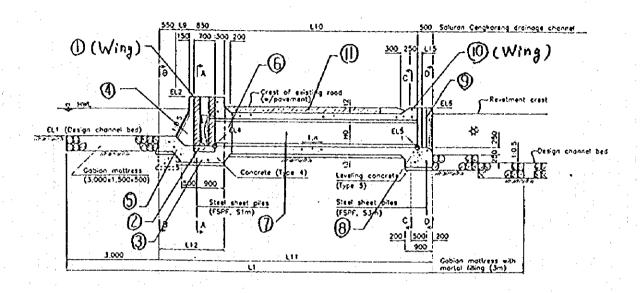


No.

To the second

- 1 {01,164,041(12-115)-012) xH, took x (14-0.55)
- (2) 0.7 (80 + 0.5)(ELX FL4 + 0.2) (0.5 B, +0.09)(ELZ-EL4) 0.2A.
- 3 LIS (BO+1.1) x H, -- 0.7 (BO10.5) x (EL) EL4+0.2) BOX O.15 (EL) EL4) AxO.
- (1) 0.4 1 LIZALIZ
- (5) {0,25 x L12 + 0.075 x (FL4- FL1) +0.2 } x L8
- 6 0.04 (B, +2t, +0.4 + Ho + t, +t =) +0.4 t, Ho +0.2(t, +t 3)(B+) t,)+0.4d2
- (Bot2ti)(Ho+ti+ts) -A)(L13-05-0.55) = (Bot2ti)(Ho+ti+ts)-A)(L13-1.05)
- (B) { | EL6-EL5+0.04) | 12 x LID-A 3 x 0.55 0.310.3 x 1/2 x 2 1 | EL6-EL5+0.4) = (1.11 LIO-0.09) (EL6-EL5+0.4) 0.55 A
- 9 0.5 x2 x L 10 x (EL6 EL5 10.4). Bo x (EL6 EL5) x0.5 = L 10 x (EL6 EL5 +0.4) 0.5 x Bo x (EL6 EL5)
- (1) 0.4 MH3 KLITA 2 = 0.8 AH3 KLIT,
- (c13-1.55) x 0.4
 - (13) Water LIBA A (BonHo 2d')

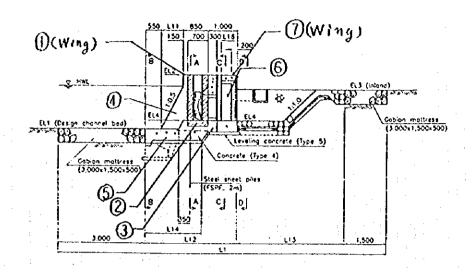
Reverment type II, long conduit, 2 lane, slide gate,



No.
(0. (118+0.4(14-14)-0.15) +H. +0.08(18-0.55)

- (2) 14+(B,+0.5)/EL2-EL4+0.2) (B,+0.18)(EL2-EL4) 0.4A.
- 3 (1.518, +0.95) +H. 0.91(B.+0.5) +(EL)-EL4+0.) -B. x0/5x(EL)-EL4)-Ax03) x0.1. =2.3(B.+0.95) +H. -1.4 +(B.+0.5) x(EL)-EL4+0.) - B. x0/3+(EL)-EL4)-0.6A
- (HWL-EL4) 1/2 (HWL-EL4) x0.08/0.15 =0.2 (HWL-EL4) +0.12 (HWL-EL4)
- (5) (0.55 x 0.5 + (H. EL2 + EL4) x L9) x L9) x L9 = (0.275 + (HI - EL2 + EL4) x L9) x L9
- (12 1 B. +19) 0.04 + 10.34 1 0.4 B. XH. + ts + ts) 0.4 Both + 0.8d2.
- 1 2x ((Ho+ts+ts X8+ti+t+10.45-06t,-03t4)-13(610-105)
- (B) (1866- ELS+0.78), (Bo +14) 2×A 3/0.55 0.15, (0.75- 6) x(B0+1.4)
- (9) (Bo+14) x0.5 x (EL6-ELS+0.73) Box (EL6-ELS) x0.5 x2 = 0.5 (Bo+1.4)(EL6-EL5+0.75) - Bo(EL6-EL5)
- (1) (1) 13 x 13 x 10 3 x 1 x 10 x 2 x 1 13 x 2
- (Forces) = 0.4(2B. +2t, 1 t4) (1/0-0.3-0.55)
 - (B) Water L10/A .>

Revement type IL, short conduit, I lane, slide gate.

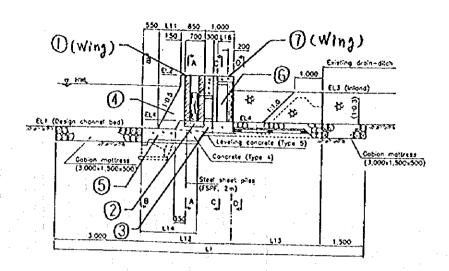


No.

1

- 1) foibx L8+ 0.4 x (L5- L11) 0.15 } x H1 +0.08 x (L8-0.55)
- (2) 0.7 (B. +0.5)(ELZ-EL4+0.), (05B. +0.04)(ELZ-EL4)-AXO.2
- 3 1.15 (1B+ h1)(EL)-EL4+0.4) . 0.7.(B+ 0.5).(EL)-EL4+0.2) 0.15 B.(EL)-EL4) -03A
 - 1 H2 + L11 4/2 + 0.2 x 2 = 0.2 x H2 x L11
 - (5) 0.4x(L14+0.3) xL7+0.3x0.15+1/2×L7 = (0.4+L14+0.1425) xL7
 - ((EL2-EL9+0.4) (0.7, (Bo+11) -0.7, (EL2-EL4 -0.2), B.
 - 1 H3 1 LIS + 0.15 12 + 0.2 × 0.7 × 1/2 (2 × H3) 0.5 × H3 × LIS + 0.04 × H3
 - 9 Water. 0.51A = 0.5 x (0.14.- 14.)

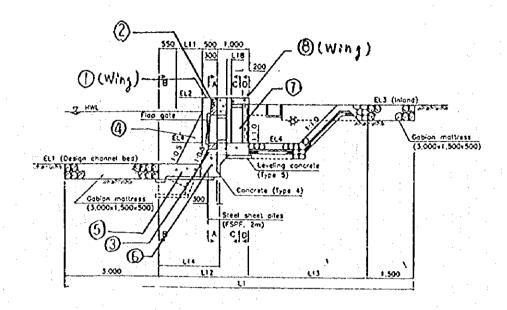
Revement type IL, short conduit, others, slide gate.



No.

- 1) {0.6x 18+0.4x (15-14)-0.15} +HI +0.08x(18-0.55)
- @ 0.7.(B.+0.5)(EL2-EL4+0.)_(05B.+0.07)(EL2-EL4)-Axo.2
- 3 1.15 (B.+ 1.1)(EL)-EL4+0.4)- 0.7 (B.+ 0.5) (EL)-EL4+02) 0.13 B.(EL)-FL4)-OJA
- (1) H2 + L11 + 1/2 + 0.2 x 2
- 6) 0.41 (614 + 0.3) 16 7 + 0.310.15 + 1/2 × 67 = (0.4 + 614 + 0.1425) x 67
- 6 (EL2-E19+0.4) (0-1/+ (Bo+1/+) -0.7+(EL2-EL+-0.2) . B.
- 1 HS 1215 x 0.15 12 + 0.12 x 0.71 1/2 x 2 x H3
 05 x H3 + 215 + 0.04 + H3
- (3) Water 0.5 x A = 0.5 x (8. 14. -2d2)

Revetment type II, short conduit, I lane, flap gate.



No.
(0.6xL8+0.4x(L5-L11)-0.15)xH1+0.08x(L8-0.55)

2 0.2 x (EL2-EL4 +0.2)(80+0.3)

3 0.8x(EL2-EL4+0.4)x(B. + 0.9)-0.5x(B. +0.3)(EL2-EL4 +0.2).

4 H2xL11x 0.2

0

5 0.4 x (L11+0.55) xL7.

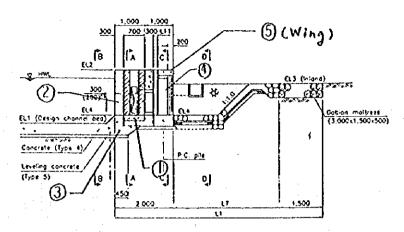
(Bo +0.9)

1 (EL2-EL4 +0.4) x0.7x (B. +0.9) - (EL2-EL4-0.2) x0.7xB.

1 05 x Lb x H3 + 0.04 x H3

(1) (1) Water 0.3xA =03x(BoxHo->d2)

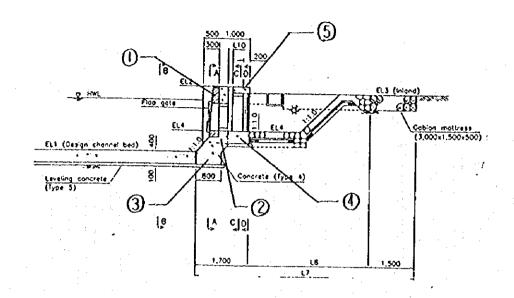
Open culvert & concrete ditch; short conduit. I lane , Slide gate.



No.

- $0.7 \times (B_0 + 0.5) \times (E12 E14 + 0.2) 0.3 \times (B_0 + 0.3)(E12 E14) B_0 \times 0.2 \times (E12 E14) A \times 0.2$ $= 0.7 \times (B_0 + 0.5) \times (E12 E14 + 0.2) (0.5B_0 + 0.09)(E12 E14) A \times 0.2.$
- @ 1.3x(Bo+1.1), H, -0.7x(Bo+0.5)x(EL2-EL4+0.2)-Box(EL2-EL4)x03-Ax0.3
- 1 (Both 1) yo. 7 (EL2-EL4+0.4) 0.7 , B. x (EL2-EL4-0.2)
- 5 LIOXH4 x 0.25 x 2 + 0.2 x 0.2 x 1/2 x H4 x 2 = 0.5 x LIOXH4 + 0.04 , H4
- 1 Water . 05xA = 0.5 (18,44, -2d2)

Open culvert & concrete ditch, short conduit, I lane . Flap gate,

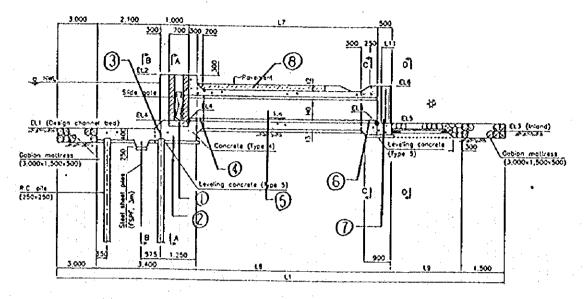


No.

()

- 1 0.2, (EL2-EL4 10.2) +(Bo + 0.3) B. H. KO. 1.
- 1 0.8x(EL2-EL4+0.4)x(Bo+0.9)-05x(Bo+0.3)x(EL2-EL4+0.2)-Ax0.3.
 - 3 0.8/(0.4+0.2)/(B.+0.9) = 0.48(B.+0.9)
 - 1 (B. + 0.9) x0.7x (EL2 EL4+0.4) 0.7 . Box (EL2 EL4 0.2)
 - 5 0.25 1 L9 x H3 x 2 + 0.2 1 0.2 x H3 x 1/2 x 2 = 05 x L9 x H3 + 0.04 x H3.
 - ① Water Aro.3 =(B.110-2d2) × 0.3.

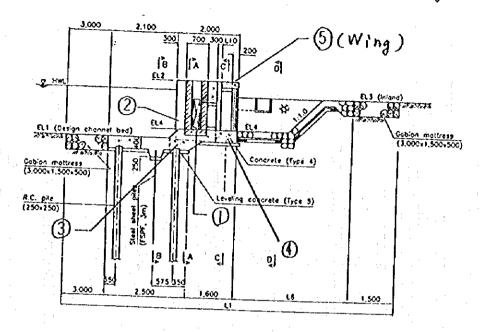
Concrete L-type wall, long conduit, I lane, Slide gate,



- NO.

 O.7 ((B. +0.5) ((EL) EL4 +0.2) 0.3 ((B. +0.3) ((EL) EL4) B. +0.2 ((EL) 2) $= 0.7 \cdot (B. +0.5) \cdot ((EL) EL4 +0.2) (0.5 B. +0.09)((EL) EL4) Axo.2.$
- (2) 1.3x (Bo+1.1) xH, 0.7x (B, 105) / (EL) EL4+0.2) Bo xOJx(EL) FL4)2 4- A x 0.3.
- (0.2 x0,2x 1/2 + 0.270,4) x (Bo+1.1) = 0. ((Bo+1.1)
- (B) (B) 21,101) x0.270.2x 1/2/2 + (H) + t,+t,) x0.270.2x = 1/2 + 2t, + 0.2 + 0
- 6 {(B+2t,)(H+t2+t2)-A3x(L7-05-0.55) ={(B,+2t,)(H+t2+t2)-A3x(L7-65)
- () {\(\) \
- 1 HarosxL6x2 B. ((EL6-EL5)x0.5 =15xHaxL6 - 05B. (EL6-EL5)
- (Paracent) = 0.4 x (B. +2t,)

Concrete L-type wall, short conduit, I lane, Slide gate



No.

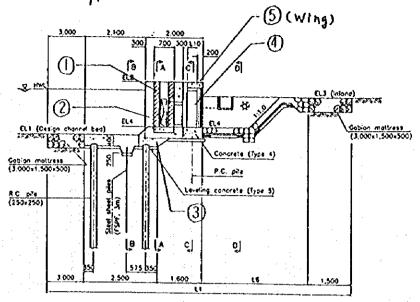
- (D) 0.71(B.+0.5) x(EL2-EL4+0.2) 0.3 x(B.+0.3)(EL2-EL4) B.X0.2 = 0.7(B.+0.5)(EL2-EL4+0.2) (0.5B.+0.09)(EL2-EL4) A x 0.2.
- @ 1.3x(Bo+1.1)x(EL2-EL4+0.4)-0.7 (Bo+0.5)*(EL2-EL4+0.2)-2

4 BOX 9.3 Y(EL2-EL4) - AXO.3.

- 3 {10.4+0.1) x0.2x 1/2 + (0.350+0.650) x0.3x 1/2 } x(B.+1/1) -0.25 (B.+1/1)
- (ELZ-EL4+0.4) 10.7x (B.+1.1) 0.7x B. , (ELZ-EL4-0.2)
- (5) H3xL9x0.25x2+0.2x0.2x 1/2x2xH3 = 0.5xL9xH3+0.04xH3.
- D Water 05x1 = 05x(Botto 2d2)

Concrete L-type wall, short conduit. 2 lane, Slide gate.

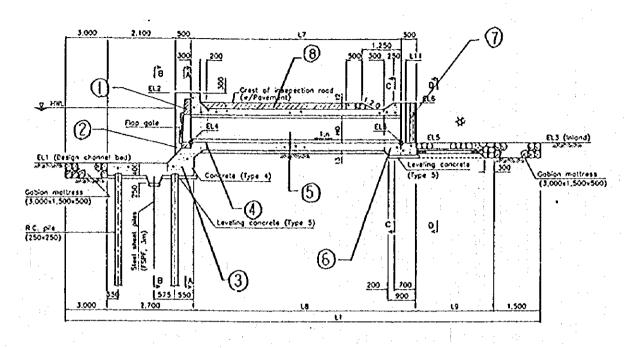
()



No.

- 1.41(8.+0.5)(EL2-EL4+0.2)-2(0.5B.+0.09)(EL2-EL4)-0.4A.
- $2 \left\{ 1.3 \times (B_{1} + 0.95) \times (FL2 EL4 + 0.4) 0.7 (B_{1} + 0.5) \times (FL2 EL4 + 0.2) B_{0} \right\}$ $4 \times 0.3 (EL2 EL4) 0.3A$ $= 2.6 \times (B_{1} + 0.95) \times (EL2 FL4 + 0.4) 1.4 (B_{0} + 0.3) (EL2 EL4 + 0.2) 0.6B_{0} (EL2 EL4) 0.6A.$ $4 \times (B_{1} + 0.95) \times (EL2 EL4) 0.6A.$
- (3) 0.25/(2B.+1.9)
- (EL)-EL4+6.4) 10.7x (Bo+0.95) -0.7, Box (EL2-EL4-0.2) } x2.
- (5) L9xH3x0.25x2+0.2x0.2x1/2x2xH3 = 0.5/L9xH3+0.04xH3
- (1) Water Aro.5x2 = (BxHo-2d*)x0.5x2

Concrete L-type wall. long conduit, I lane, Flap gate,



No

()

1

- 1 0.31(B.+0.3) 1(EL2-E14+0.2)-A10.3
- 0 081(B. +09) 1(H2-02) 0.5x(B.+03) 1(EL2-EL4+02) Ax03
- 3 {0.6, 0.6+(0.4+0.6)x 0.2/2} x (B, +0.9) = 0.46+(B, +0.9)
- 1 0.04 (B. 12t, +0.4+ Hot tet to) +0.44, +6. +6.2(t, +ts)(Bo + 2t1) +0.4d2
- (Bo124) (Ho1t+t)-A) (L7-05-0.55) = {(Bo124,),(Ho1t+t3)-A} x(L7-1.05)
- ((EL6-EL5 + 0.4) x2 x L6-A] x 0.55-03 x 0.3 x 1/2 x 2 x (EL6-EL5 + 0.4) = (1.1 x L6-0.09) (EL6-EL5 + 0.4) 0.55 A.
- (EL6-EL5+0.4) x 0.5 x 2 x L6 Box(EL6-EL5) x 0.5. = (EL6-EL5+0.4) x L6-0.5 Box(EL6-EL5)
- (Pavement) = (17-1.55) x 0.4
 - 9 Water L7 1A = L9x(Bo)Ho 2d')

Table QUANTITY CALCULATION OF CONCRETE WORKS OF SLUICE WAYS

Package 1

No.3.1/15, 16

Kamal Drainage Channel (main)

(unit: cu.m)

Ualle	I Diana	igo Cha	UKE (11.	an ,											tmn.	CU.147
	SKN	1 IL	SKN	1-2L	SKN	1-3L	SKN	1-4L	SKN	1-5L	\$K!	1-6L	SKM-7L		SKM-8L	
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Tyre 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5
1	3.51		3.51		2.83		2.43		2.36		2.65		2.83		1.93	
2		0.92		0.91		0.97		0.86] :	0.89		0.86	ŀ	0.69		0.83
3	3.24	,	3.20		2.96		3.52		3.61		3.52		3.53		3.42	
4	0.28		0.28		0.57		0.29		0.41		0.41		0.27		0.41	
5	0.69		0.65		2.47		4.67		7.29		6.44		3.74		7.43	
6	0.47		0.44		2.41		0.51		0.60		0.45		0.24		0.59	
7	15.60		8.28		1.78		2.14		2.25		0.47		0.28	•	2.06	
8	1.39		1.23				0.30	:	0.31		0.24		0.14	1	0.31	
9	1.61	:	1.43	·			0.32	: "	0.36		0.36		0.30	1	0.36	
10	1.68	1 .	2.52				1				2.12		1.69			
11																
12	ļ	<u> </u>				<u> </u>	ļ		L		<u> </u>	<u> </u>				
Total	28.47	0.92	21.55	0.91	13.02	0.97	14.18	0.86	17.20	0.89	16.66	0.86	13.01	0.69	16.52	0.83

Kamal Drainage Channel (main)

(unit : cu m)

1201110	Diwip	Se 6110	DICT (,									100.000	CO 3117
	SKM-1R			CM-1R SKM-2R		4-3R	SKN	A-4R	SKN	1-5R	SK!	1-6R	SKN	4-7R
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5
1	2.36		2.40		2.47		2.64		3.33		3.25		3.22	
2		1.82		0.92		0.92	1	0.82		0.80		0.78	* #	0.79
3 .	6.22		3.74	. :	3.79		2.92	,	2.87		2.81		2.88	:
4.	0.99		0.47		0.50		0.23		0.22		0.20	l	0.20	
5	11.03		5.26		5.53		0.50	1	0.49		0.48		0.56	: -
8	1.28		0.66		0.71		0.36	,	0.29	. :	0.29		0.41	- ; t
7	3.07		2.49	}	2.62	- "	2.33		4.91	· .	5.04		7.27	
8	. 0.68	· ·	0.35	1.	0.37		0.43		1.08	· .	1.04	1.0	1.20	٠.
9	0.72		0.40		0.42		0.51	-	1.16	1.	1.13		1.35	
10		**					0.26		1.52		1.26]	1.65	
11				•			0.32						l	
12					 _		1.99					<u></u>	L	
Total	26.34	1.82	15.77	0.92	16.41	0.92	12.47	0.82	15.87	0.80	15.51	0.78	18.74	0.79

Kamal Drainage Channel (branch)

(unit: cu.m)

i	SXI	:-1L	SKI	5-2L	SKI	E-3L	SKE	E-4L	SKI	E-SL	SKI	3-1 R	SKE	E-2R	SKE	3- 3 R	
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Ì
1	2.57		2.55		2.53		1.88			0.12	2.21		1.83			0.12	Ì
2		0.67	•	0.15		0.15		0.56	0.92	1		0.56		0.57	0.92		ı
3	2.18		0.92		0.92		2.21		0.62		1.90	ş.*	2.25		0.62		ļ
4	0.29	'	0.15		0.15		0.14		0.99	1	0.28		0.14		0.99		١
5	1.32		0.51		0.51		0.44	4.5.	0.44		1.32	!	0.48	-	0.44		١
6	1.76		0.64		0.61		0.36				1.57		0.43				l
7	0.44		0.99		0.99		2.21				0.34		6.97	-			İ
8			2.36		2.16		0.42						0.49				ı
9							0.50	1 .	١.				0.56				ı
10						4.	0.26	1			1 :		0.28	l .		ļ .	ı
-11				İ			0.32			1		2.1	0.34		1 .		ı
12			<u> </u>				1.09						1.04			L	1
Total	8.56	0.67	8.11	0.15	7.89	0.15	9.83	0.56	2.97	0.12	7.62	0.56	14.91	0.57	2.97	0.12	l

Table QUANTITY CALCULATION OF CONCRETE WORKS OF SLUICE WAYS

Package 2

No.3.1/13, 14

Tanju	ngan Da	rainage	Channe	1						·			(unit :	cu.m)
	STM-1L		STM-2L		STA	1-3L	STN	1-4L	STM	1-1R	STN	1-2R	STN	1-3R
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5
1	2.51			1.43		0.70		0.72	2.51			0.25		0.71
2		0.69	4.63		2.62		2.70		. :	0.69	1.00	1	3.40	
3	2.25		0.98		0.48		0.53		2.25		0.60		0.19	
4	0.38		3.39		1.81		1.90		0.38		0.14	Maria.	0.29	
5	1.41		0.32		0.98	٠	0.69		1.41	٠.	1.60		4.48	
6	1.81							l Ny	1.81		0.69		1.06	
7	1.01						1		0.75		0.63		0.87	
8			i i					į						
9.				4.				1 : ,						
10			•				1 1							:
11														
Total	9.37	0.69	9.31	1.43	5.89	0.70	5.82	0.72	9.11	0.69	4.65	0.25	10.28	0.71

PIK Junction (unit : cu.m)

	SNA	I-IR
No	Type 4	Type 5
ŀ		0.79
2	3.78	
3	1.48	
4	2.05	1
5	0.85	
6		
7		1 1
8		- 1
9		
10		
11		
Total	8.16	0.79

Table QUANTITY CALCULATION OF CONCRETE WORKS OF SLUICE WAYS

Package 3

No.3.1/21, 22

Salurai	n Cengk	ereng I	Drainage	: Chann	el										(unit :	cu.m)
	SCM-IL		SCM-2L		SCN	1-3L	SCI	1-4L	SCN	4-5L	SCI	1-6L	SCA	1-7L	SCN	1-8L
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5
1		0.91	3.37		3.32		2.79		3.08		2.89		2.75		2.61	
2	4.55			2.00		0.97		0.97		0.86		0.94		0.93		0.85
. 3	2.49	:	6.74		3.87		3.87		3.52		3.79		3.74		3.02	
4	2.32		1.05		0.41		2.34		0.41		0.44		0.44		0.29	
5	1.79		17.51		6.79		0.79		4.14		7.50		7.55		0.57	
6			1.33		0.64				0.58	l	0.65	i	0.63		0.48	
7			- 3.36	:	2.57				2.15	Į.	2.48		2.40		3.25	
8			0.71		0.33				0.30		0.33		0.33	,	0.49	
9			0.76		0.36				0.36		0.38		0.38		0.55	
10															0.28	
11								İ							0.34	
. 12				1.	<u> </u>							L			2.10	
Total	13.14	0.91	34.82	2.00	18.30	0.97	9.79	0.97	14.54	0.86	18.46	0.94	18.22	0.93	13.98	0.85

Saluran Cengkereng Drainage Channel

- (unit :	cu.m

	SCA	1-IR	SCN	4-2R	SCN	1-3R	SCN	1-4R	SCA	1-5R	SCM-6R		SCN	1-7R
No.	Type 4	Туре 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Tyre 4	Type 5	Type 4	Type 5
1	2.72		2.96		2.54		3.08		2.90		2.63		2.61	
2		0.85		1.00		0.96		0.95		0.93	1.3	0.91		0.83
3	2.68		3.99		3.83		3.79	· ·	- 3.74		3.69		2.96	
4	. 0.82		2.42		2.31	1	0.41	- 1	0.41		0.44		0.29	
5	2.29	l	0.91		0.57		6.88	100	4.21		4.63		0.52	
6	2.19]	0.62		0.61		0.62		0.36	
7	1.14		* . *				2.44		2.40	-	2.35		4.90	
8	}						0.32		0.32		0.32	-	0.42	•
9					·		0.36	- 1	0.36		0.38		0.51	
10								: -					0.26	
11			* .						•				0.32	
12													1.98	
Total	11.85	0.85	10.28	1.00	9.25	0.96	17.90	0.95	14.95	0.93	15.06	0.91	15.13	0.83

Gede/Bor Drainage Channel

(unit	:	CUL	m)

•	SGM-1L		SG:	4-21.	SG3	4-3L	SGN	1-1R	SGM-2R		
No.	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	Type 4	Type 5	
ı	2.40		5.03		3.07	: -	2.60		2.58		
2		0.75		2.10		0.75		0.68		0.75	
3	2.74		6.15		2.73		2.22		2.42		
4	0.24		0.89		0.24		0.50		0.48		
5	0.50	- 1	2.23	i !	0.50		1.50		1.49		
6	0.36		0.92	i i	0.30		1.79	-	1.92		
7	4.89	!	21.52		6.90		0.82		0.88		
8	0.43		2.16		1.03		- 1	- '			
9	0.51		-1.26		1.11						
01	0.26		3.82		0.94						
tt	0.32			,							
12	1.54										
Total	14.20	0.75	43.99	2.10	16.82	0.75	9.43	0.68	9.75	0.75	

14-80-(550xx)xH1) ... 0.00x (Tef 600) + 005 97) x 0050 500) × HO × ... () 0.200 × (L(7 - 1000 - 1500) × 2 ...(3). 0.500 × (12 - 80-0550×2) × 2 0.300 × 500 × 2-1.1 Partition Wall (ordiet) (LF-80) × H2 (08-71) 4 x H x (2) x 072) L16 x 40 x 2 ... 6 (000×0400 × > [16 × BO ... (4) 15 x 400 ... 3 7 × 5.1.2 005) Couduit - 5 0.700× (Calculation formula for tam Work Levee Earth Type 1 lane (51: degate) Long Conduit (113 x 2 - 80) /2 x (E16 -E15)x2..0 (0200×12) × (80+055×2)= 0.283 (30+11)...(3-0.500× (EL6-EL5)×2×2 ----® (516- ELS-HO) 20500 x2 ... @ O" T . (0H - 577 - 772) x 005:0 (FT6- ELS- 40) x L5 ... (216-920-920) * t2 x 2. 0.500 × (0500 + L8 +0600) = 0.400x (550x 2+80) ...(S) · (416-1.0) x t2 x 2 fartition Wall (Inlet) (250 × (12) × 15 ... (3) = 0.354 × 15 1.300 m (1.14 x 22.0 1.4 x 00.70x 00.20 1.0 m 1 0.500 × (1.14 Conduit - 2 Conduite 3 Conduit -Infet - 1

(300x (612- E14) = 2.6 (E12- E14)

0所x(ELZ-EL4)が £ = 77)× (00E0-0550)

0,300 × (EL2 - EL4) × 2 ...(3) :06 × (EL1 - EL4)

0:700 x (ELZ-EL4)

outlet - 4

녆

0,200x (EL2-EL4 112200) x2 ... O

0.(30x (EL2-EL4 10200) x 1. ... 3)

Outlet -3

(14- 30 -0550) ×H!

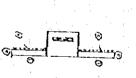
0.400 × 41 × 2 ... (5) 1.084, (1.4-30-1.1)×41×2

Foundation Concrete

12 - (0.5 - 103-0135) . L 2 - 0134 (D ... 004) 2 27

L2x0.3 - 3





()

: 3

Conduit - 2

0.400 x (EL6 - EL5) x 2 ... (D)

1x(et - |

0050-0050-917)

0.500 × (

- ELE - HO) x 2 ... © x 2 + 80 x 2 - 10800) ... (3) (19 - 80 x 2) (19 - 80 x 2) (190 x 2 + 370 x 2 + 800) ... (3) 0.400×

Θ (1-16-0900-1

1970 - 1400 X F \$100 + color

14-80×2)×H 15-80x2)x

(116-0900-1900) x 410 x2 x 2 ... (2) - (216-26) - 410 x4 (1900 + 21 x + 10 x 2 ... (5) - [196 + 21 x + 10 x 2

() ()

CxZ x/a **(**0)

0.700 × 6.700 + 1.8-4600)

0.300 2005.0

0.300× (CLIA

Partition Wall (Inlet)

10900++ t12 x HO x 2 ... (0.10.81 ++ 11. 40.2 V((200-t4)/2) + (f00 × H0 × Z .. (7)

(1600-14)/2)+0900 ×H0×2 · (8)

Conduit - 1

ř

Lavee Earth Type Z Lane (Slide gate) Long Condo: t

Lラ× (EL6-EL5-HO) … ① 0.500 × (EL6-EL5-HO) × 2 (250 × 12) × 15 ...(3)

ĭ

Carduit - 3

ī

*0.283 (2×Bo+1.9) (子)×00Z)

Canduit -4

⊚

0,600×(EL6-ELF) Inlet-2 SW-73

SW-74

B

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Level Paraped Wall Type Long Contuit. (Slide gate)
1 Lane
```

Inlet .

0.500 x (ECG-ELF) x > x2-2(ELG-ELF) 0.400 (566 - 765) 12 - 0.8 (566 - 665)

0,400 x (EL6 - ELF) x2 - 0,8x(EL6-ELF)

Partition Wall (with)

0500× (0500+17+0600) ×2×2-2(47+111)

0,500x (LI3x2) x2=113x2

0.300 x0.500 x 2 - 0.3

Conduit- 1

(80 +0400 × 2) · (EF 6 7 ELS - HO)

0250x (EL6-EL5-HO) x = 05(EL6-EL5-Ho) \$550×15) x (80 20,400 x 2) - 0.354 (80 20.8)

Conduit - 2-

(114-0500 0500) x tx x 2

= (114-(0), +3,2

1

1

()

6200x (12) x (80 talfor 1 10300 x) 80 to 190x 1 to 300x 2) 20,400 · 0.4 (BO +0.9)

Conduit - +

レマン HOY H

(72-80) × Hz

() Hx(2x04)-08-7) + Hx (2xx0) (250x0) + (250x0

ス×11×(立1×00gg) -0.849 ×H1

1/4×H0×4 L14×80

Canduit - 5

(200 x0400 x 2-

9177) .0020

5W-75

<u>ं</u>

(300× (EL2 - EL4) × 2 0.550× (EL2 - EL4) × 2 -(1(EL2 - EL4) × 2 -(1(EL2 - EL4) × 2 (550 0.300) × (EL2 - EL4) × 2

0,700 × (EL2 - EL4) x2.

0300× (ELZ - EL4) ×2--06 (ELZ - EL4)

のは、は、ア

4

0,200 x (EL2-EL9 10200) x 2 (0.4+0.3+0.6) (EL2-EL9-10.2)
0,150 x (EL2-EL9 10200) x 2 (= (.3(EL2-EL9-0.2)
0,300 x (EL2-EL9 10200) x 2)

(80-18/50-1)x(EL2-EL4 1200)-(80-H0)
-(80+0.3)(EL2-EL4+0.2)(B0xH0)

Parapet Wall

ŀζ

(62- (80+8)90x2))xH(x2x2 200x H(x2-2-6-4) Foundation Concrete

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Levee Parapet Wall Type Short Conduit.
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7(6× H2×2

(BO+0550x2) x (H2-

Conduit Fl © 2000 x((ELZ-Eg

30250× (EL2 - EL4) (EL2 - EL4) 30700× (EL2 - EL4) (E2 - EL4) € (B0-10250××) × (EL2 - EL4)

(3) (700× (EL2-EL (3) 0550× ((EL2-EL (3) 0,300× (EL2-EL (200× (E(2-1

0200x (EL2-E 0000

(L2-(80-9550x)

) 3 5.3(EL2-514) x(ELZ-EL4)-(30 xH0) (*(Bo +1.1) * (Ec 2 - Ec 4) - (Bo *Ho) 0 3-0550) × t3 × 2 ... 3 (EL6-EL5-HO) NOSO×2 .. ① · (114-105)× +>×2 0.550 x (EL 2- EL4 - HO) Conduit -4 F1 (000 x (proott) x 2 (80+0250×2 +03co+2) = 1.6 (1.95 + 1.13) 0.700×(EL2-EL HO x L 1472. HO × 1/472. (400 missox 2)) x (05-60-606) 80 × 1-14 Carduit -3 Outlet --Revetuent Type I Lane (Slidegata) Long Conduit (G. (80+0.8) x (02+t.) (250×12) × (80 toft0x2) . (9. -0.35fx(80 +08) (ELG- ELS-HO) x (8010400x2) = 3 F13×119×2×2 .. 0 .. 4×H3×L19 0.400 × H3 × 2 ... @ .0.8 × H3 TTP- 513 (Eub - F-5-40) x (80+0.8) 0.400x (EL6_EL5) x Z ... 0 (L6 to (con 1000) 20 x 2 x 2 0900× HO × Z .. (4) = 0.8 × HO (BO-0400 x 2) x (p200+ Cl) · 2.0 - (Eub-Eus) · 0.8 . (E16 - E15) 0300 × 0500 x Partition Wall (ガ×ガル) Conduit - 1 ななり L.

SW-78

0,150 × (EL2-EL4) × 2 .. (3)

B

0200x (EL2 - EL4 40200)

0,300 (ELZ - EL4 10200) x 2 .. (3) 0,190 (ELZ - EL4 49200) , 2

Outlet -3

Foundation Concrete

I take (slide gate) Long Conduit Revetment Type II to It ŁΣ Υ

0500x (ELG-ELF) x 2 x 2 .. (3.20(E-6-E-5)) 0,400×(日6-日15)×2 · 日·0.8×(日4-日5)

12), (BO 12400 12) . (G.

0.40×40 . 2 .. (F).

(Bo to 400 x 7.)

(EL6-EL5-HO) x (BO totalo x 2) ... (3)

=(E-6-E-5-40)×(BO+8)

Conduit - 2

(113 4590 4500) × t 2 £5 (EL6-EL5-Ho) 4500 x ;

0550x (EL2-EL4-H0)

HO × 113% 4 Bo × L(3

HO * L1322 ... (1)

Conduit -4

1320+ 11

Outlet -

6200 4029

0,150 x (EL2-EL4) x C) = 0.3 × (E12 - E14 .

*(EU2-EU4) - (BOXHO)

()

SW-80

Conduit -

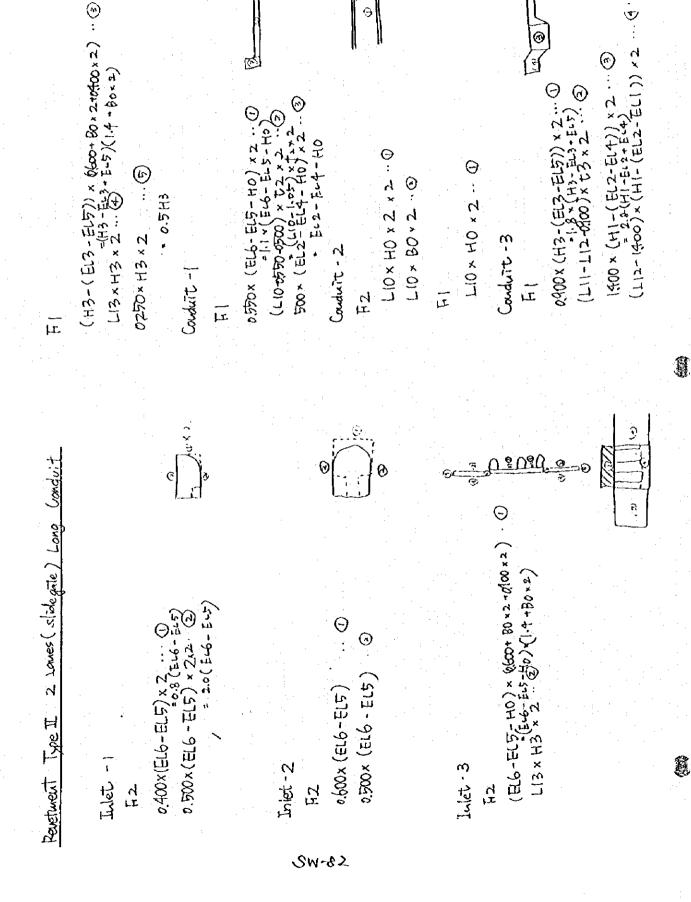
Outlet - 2

0.200 × (ELZ-EL4 4200) ×2 ... 0 (1.3(FL2-F444)) 2220 0.150 × (ELZ-EL4 +200) × 2 ... (2) (1.3(FL2-F444)) 2220 0.300 × (ELZ-EL4 +200) × 2 ... (3) 0.300 × (ELZ-EL4 +200) - (Bo +40) - (F. (Bo +40)) - (F. (Bo +0.3) × (ELZ-EL4+0.2) - (Bo × Ho)) - (F. (Bo +0.3) × (ELZ-EL4+0.2) - (Bo × Ho))

Outlet -3'

Foundation Concrete

27= 27=



のだらた。

1,50 × (EL2-EL4) × 2 .. (3.4×(6.2.64)

0570×(EL2-EL4)×2 …②

(4570×2+24)

0700× (

Ħ

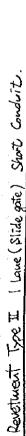
0,150 × (氏之-瓦4) = 0.6、(正2-

0.150×(EL2-EL4 10200)×2×2 ⓒ 0.200x(EL2-EL4-4200)x2x2...

((80 to 150,2) x (EL2-EL4 epo) - (Bo. Ho) x 2. (F) = {(bo+0.3) x (EL2-FL4+0.2) - (BoxHo)} x2 0,300x (EL2-EL4 10200) x2x2 ... (3)

Foundation Concrete

1



H3 x (L4 - 80 \$50x2) ... (3,43x) 60250 x H3, 2 (H3-(EL3-E(4)) x 80 ... (9) H3 × (L4-80-0550 × 2) ... © H3 (L4-80-11) 0,550 × (EL2-EL4) × 2 ·· 0 0200× 80 ··· (EL2-EL4) $0200 \times 80 \cdots \odot$ Inlet.

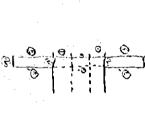
(+1+HO) × 116 × 2 t1+H0-4200) 1-06-00)

(+1+HO) × Libx 2 x2 ...

0300× 80 ···@

(T(+ HO) x9300 x 2

1,12 x0800 x 2 ... 0 2,6 x L(2, 0,800 x (80 to 570 x 2) x = (.6x(Bo+1.1)



(BO #0570x7) 0700 × (EL2-

) × (05.00 to 60)

이形 × (타고-타4) × 2 ... ⑥ = 0. 3 × (Eu.2 - Eu.4)

(80 tolso x2) x (EL2-EL4 to200) - (BOXHO) F2.
0,200 × (EL2-EL4 +0200) × 2 ··· (0)
0,150 × (EL2-EL4 +0200) × 2 ··· (0)
0,300 × (EL2-EL4 +0200) × 2 ··· (2) Outlet-2

(12-80 0570×2)×(EL2-EL4)×2 · · · · (L5- L11 10350) x (EL2-E14) x2 Outlet - 3

Foundation Coverede F1 2 20500 2

Conduit -1

Revetuent Type II I lave (Slide gate) Short Conduit

0200 × 80 ... (1.1- 1.4) 0 形 × (四2-月4) Inlet.

H3x (L4- B0-0550x2) ...(3) 6,200 × BO ··· (3)

H3 x (L4 - 80 6550x2) ... (2, H3x (L4-8) 0250x H3, Z (H3-(EL3-EL4)) x 80 ... (5)

((000-0300 - [-16) × BC

(t)+H0-200) × (

(t1+H0)x (+1+HO)×

(t(+ HO) x0300 x 2

0300x 80 ··· ©

L12x0800 x 2 ... O. 0. 80x(12x0x2) x 2

(03:00 to 50) x (1 0.700 × (EL2-T 0,250×(E12-E (B) 45/20×4 0850 x (EL2

0/90 × (EL2-EL4) ×2

F2. 0.200x (EL2-EL4 4200) x 2 ... (D) 0.150 x (EL2-EL4 4200) x 2 ... (3) (13(EL2-EL4462) 0.300 x (EL2-EL4 10200) x 2 ... (3) Outlet-2

(80 tolso x2) x (EL2-EL4 toco). (BoxHo)

Out (et - 3

(12-80-550×2)×(EL2-EL4)×2 ·· O

(15-111 4950) > (EL2-EL4) 12 . 3

Foundation Concrete 12,0500 12

SW-85

20nduit -1

Revetwent Type II I Lane (Flap gate) Short Condoit

Inlet

0450x(EL2-EL4) x 2 ... (D 0200 × BO ... ②

H3x(14-80 0450 x2) ... (8)

0200 BO ... (3)

H3×(L4-B0 450×2) … ②

0250 × H3 × 2 = 0.5H3 (H3-(E(3-E(4)) × 30

Sonduit - |

3(7 - 00E0 000) \ (tl+H0-2200)

(t1+40) x L18 x 2 x 2 .. . (+1+40) × [18

3. 03×0000

(+1+HO) x3x0 x2 ...(D)

((EL4-ELI) x 0.5 1800) x (41-(EL2-EL4)) x 2 . 6 (L12- L14) x (H3-(EL3-EL4)) x2.0 0 Conduit -2

(LI4-((E(4-E(1)*057030)) x0400 × 7 · (3) = 0.8 1 × 14 · (E(4 - E(1) × 5 + 0.3 3)

Outlet --

0,300 × (EL2-EL4) × 2,12-EL4 0,300 × (EL2-EL4) × 2,12-EL4 0,300 × (EL2-EL4) × 0.6 (EL2-E-4)

(BO O) (BL2-EL4)-(BO.HO) ...

0500 × (EL2-EL4) x 2 .. (3)

の社は・イ

たり

(BO+0150x2) x (EL2-EL4 ADOO)-(BOXHO) ... @

outlet -3

T)

0

(L5- B0-0450×2) × H1 × 2 ·· (L5-111-0350) × H1 × 2 ·· (

Foundation Concrete (2 x0500 × 2 - 12

18-W2



Inlet

0.550x (EL2-EL4 0200) x 2 ·· 0 0200x (80 +0550 x 2) ·· (\$12- EL4 1 10 x 114 x 2 · 6-2 (80 + 1.1]

L(0×H4×2--

(H4-(EL3-EL4)) x (B0 4550x2) L10 × H4 x 2 - (5)

0,250×H4×2 -0.5H4

Conduit - 1

117-0021-002)

(+1+ HO) x L11 x 4 x + . (41+14)X(1)

0300 × 30 ··· ©

(ti+Ho)x0300x2

Conduit - 2

(H4-(EL3-EL4)) x (200 x 2 - (

(300-H2), (1000-200) x 2 ·· (3)

Oct | et -

0.7∞x (EL2 -EL

0.300x(EL2-EL4) x 2 ... (6)

Oct (et - 그

0.200×(El

(BO Q 50 x 2

(000 × (EL.

0250 × (EL2-EL9

(80 to 50xx)

Open Culvort / Concrete Ditch

Inlet

0.550x(EL2-EL4 0200) x 2

(H3-(EL3-EL4)) x (B0 0550x2) (3)

19x H3x2 .. (3)

0250 × H3 × 2

buduit - 1

(t1 140) x L10 x 2 x 2 .. @

0300 × Bo · (E)

(tl 1410) x0300 x 2 -(4)

Conduit - 2

0900 × (EL2-EL4) × 2 ··· ©) 1.6(EL2-EL4) (300 × (EL2-EL4) × 2 ··· ©)

(80 10150x2) x (EL2-EL4)-(B0xH0). 3

47

0,500 × (EL2-EL4) ×2.3

Outlet-2

(BO+190x2)x(EL2-EL4-12000)-(BO+H0). (D)

Concrete 1-Type Wall I Lane (slite) Lay Conduit

0.500 (ELG-ELF) ×2×2 (20 (ELG-ELF) 0.400x (ELG-ELS) x 2 - 0=0.8(ELG-ELS)

((T6+2300)x2)x0500x (14 to 500) 20 500 x 2,

0,500 × 0.300 × 2. ··· 3

Carduit - 1

(ELG-EL5-HO) × (80+0400x2) ... O

(H3-(EL6-ELF)) × (B0 ty 400x2) ··· 3

0, 530 × (EL6-EL5 -F

(L9-2550-550) x (0.50 × (ELZ

Conduit -3

17× H0 × 2 ··· 0

C) ~ 80 ··· (3)

17. HO x 2

Conduit -4

(18-1050) × 53 × 2 · · · · · · (500+550) × (H3-1

Partition Wall

Outlet -1

Ţ

()

0,550×C

0.250× (EL2 - E

.700×(E[2-244)*2-E24 = /4*(EL2-EL4) (1801を701×2)*(EL2-EL4)-(180×H0)…③

(Bo 5,570x2) x (EL2-EL4)-(B0x H0) - 6

0.150 × (EL2-EL4) × 2 ... (T)

Outlet - 2

Couctete 1-Type Wall I take (slink jake) Short Cardit

0.550×(日2-E14200)×Z 〇

(Z)... (~x055408) x002.0

19x H3x2 . (5)

0, 550× (EL2-EL4 0,200) × 2 ··· 3

(804,550x 2) x,400 (3) 0,250×H3 × 2

L9 x H3 , 2 .. 6

Condutt -1

(も1+HO)× LO×2×4…④

0.300 × BO (5)

(t) +40) x0300 x2 ... @

Conduit - 2

1600×0/200 × 2

0.500 %700 x 2

= 5.0×(EL2-EL4) 0 0.700× (E12. 0,250× (EL2-1 6300 to 2000) x [1700 to 500) x (7×25×0-08)

0,150x (EL2-EL4) x 2 ... (3)

ひかしず -7

0.150 × (£12-EL 0,200×(EL2-EC 0.300× (EL2.E

(80 1,150×2)×(EL2-

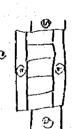
SW-92

Caurete 1-Type Wall 2 Loves (Slide gate) short

Inlet

 $0.950 \times (E12-E140200) \times 2 \cdots \oplus 0.80 \times (E12-E140200) \cdots \oplus 0.80 \times (E12-E1$

0,200× (800+ 80×245750×2) ... (3



Outlet - 1

0.400 × (800 + 80 × 2+,550 × 2) ... @ 0.250 × H3 × 2 ... @ = 0.5. H3 L9 × H3 × 2 ... @

Conduit -1

(2000-1300-L10) x B0 x 2 ... (C) (+1+H0 7200) x (2000-160) x B0 x 2 ... (C) (+1+H0 7200) x (2000-1300-1300)

(tit 40) x L10x 2x 2 ... 3

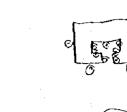
(t1+40)×L10×2×2×2×2···

0,300×80 ··· ⑤ (t1+H0) 4,300×2×2 ·· ⑥

Conduit - 2

()

0.1600 x500 x2 ... © 2.24 0.700 x500 x 2 ... © 0.7



F1 (5/001300) x (EL2-EL4) x 2 ... (3/0300 \$250) x (EL2-EL4) x 2 ... (3/03) x (EL2-EL4) x 2 ... (3/03)

0.800x (EL2-1

((BOなご50×4)×(EL2・EL4)・(BoxHo))、

F2 0,300 x (EL2-EL4) x 2 x 2 ... (5)

936

SW-94-

Concrete L-Type Wall I Lave (Flap gate,

= 2.0x(EL6-EL5) 0,500x (EL6-EL5) 0,400× (EL6-EL5) けがれ

(BO 0400×2) × (EL6-EL5-H0) ... ()

(H3-(EL6-EL5)) x (B0 5400-2) ...

Conduit - 2

OHLES - 1

(17 故ながめ)×た2×2・④

0.500×(EL2-EL4-H0) x2

0,590 x (EL6-EL5-HO)x2 · ()

Conduit - 3

L7 × H0 × 2 ··· ① L7 × BO · ©

U. 40 .7 ... ()

Conduit -4

(500 \$550) > (H3-(E16-EL5)) x - 0 (18-8282000)×12×2000)

(BO 1/40x 2) x (EL2-EL4)-(80-40). (3) (BO \$150.2) (EL2-EL) (BOxHO) .. () EL2-EL1), Z ... O 0300× (EL2-EL1)

0,500 x (EL2 - EL4) x 2 ... (3)

下1(14730)xを0x2x2 ··· ①

Batition Wall

((16+230)x2) 250x2 0,500x0300x2) 250x2

Caduit - 1

(80 2,190×2) , (EL2-EL4 17,00)-(B0,40) 0

SW-96

Table QUANTITY CALCULATION OF FORM WORK.
Package 1
Sluiceway No.: SKM-1L Location: KM20+16m
Nos.of lane: 1
Conduit size: Width 1.2 m: Height 1.2 m

F1(No.3.1/19) (E. P.)

Cuch:

Slide Gate	티		
Cate type:	2 m : Height		
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		•	
	100		•

Stide Gate

Stuteway No.: SKM-2L Location: KM24-35m Nos. of lane: 1 Gate type: Conduit size: Width 1.1 m : Height

Width 9.407 m

F2(No.3.1/20) (sq.m)

F1(No.3.1/19)

Ceneth:

Table QUANTITY CALCULATION OF FORM WORK ckage 1 No.3.1/19, 20

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6.30

Foundation concrete

132,47

Sw-97

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0.00 1.70

Table QUANTITIY CALCULATION OF FORM WORK
Package 1
Sluiceway No.: SKM-3L Location: KM26+2m
Nox.of lanc: 1
Gate type: Slide Gate
Conduit size: Width 1.5 m: Height 1.3 m

Slide Gate 0.8 m

SKM-4L Lozaton; KM29+19m Cate type: Width 0,8 m; Height

QUANTITIY CALCULATION OF FORM WORK NO.3.1/19, 20

Width 4.091 m

Length:

Stide Gate

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(SC-II)	-		2.11	0.30	6.87				0.83	1.89	0.57	1.15	0.45	1.15										0.57			All all all all all all all all all all	6.35	1.86						24.08	
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Table QUANTITIY CALCULATION OF FORM WORK
Package 1

Subsection SIAM-6L Location: KM3N+3m

No.30 lanc : 1

No.30 lanc : 1

Subsection Wall (Inlet)

FittNo.3 Livy : 10 m: Height 1.0 m

Lorryth : 7,200 m

Lorryth : 6,40m

| Inlet | 6,300 m
| 1,400 m: Height 1.0 m

| Inlet | 6,300 m
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Table QUANTITY CALCULATION OF FORM WORK
Package !
Sluceway No.: SKM-7L Location: KM42+7m

Slide Gate 1.0 m

SKM:NL Lucation: KMade.15m | Care type: | Width | 1.0 m: Height

Table QUANTITIY CALCULATION OF FORM WORK

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| Table OUANTITIY CALCULATION OF FORM WORK |
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Package I.

Sluiceway No.: SKM-4R. Location: KM40+32m.

No.3.1/19, 20
Sluiceway No.: SKM-4R. Location: KM40+32m.

Noxof lane: I. Gate type: Slide Gate Conduit size: Width: 0.8 m: Height 0.8 m. Length:

F1(No.3,1/19) (sq.m)		(w.m)
nlet i		
	-	0.1
7	-	2.52
Partition wall		
	555	
	×	
	0.0	
Conduit		
	100	
C	30	
3	-	0.73
चे	190	
2	200	
9	0.57	
Conduit 2	 	
	9	
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Conduit 3	-	
	5.91	
-	200	
		10.5
onduit 4	-	
	0,80	
Fi	91.6	
[1]	4,34	
Jutlet 1		
2	-	
6		
4	. 96°8	
5	2.34	
٩	2.79	
7		9.54
Outlet 2		
1		
3	-	2.60
		1.5
Outlet 3		
_	10.82	
r i	23	
Foundation concrete		
- 1	06. ↑	
	-	

Table QUANTITIV CALCULATION OF FORM WORK Survivage 1

No. July 20

Survivage 1

No. July 20

Survivage 1

No. July 20

Survivage 1

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Slide Gate 0.8 m

QUANTITIY CALCULATION OF FORM WORK No.3.1/19, 20

		¥.	2	Cate	E	٠						1.																																			-		
		WOF	No.3.1/19, 20	Slide	0.8						2												÷		_																								
		QUANTITIY CALCULATION OF FORM WORK		€ ::	, H		-1	1	15	2		Ť	7	0.95	Ť	Т	T	1	7	_	-	-	1	<u> </u>	10.61	Т	7	T	T	1	Ī	T	T	Τ	I	15	3	T	T	24,6	, ç,		Τ		ī	T	Τ	20.03	<u>. </u>
		Ö Ö Ö	,	Cute type:	0.8 m : Height	(02/1	1			2				0	2																	.								ľ				ļ				~	١.
		EVIS			0.8	F2(No.3, 1/20)	(sq.m)						1 1 1 1 1 1 1												1																							-	
		STO		Cocation :	ε					:						2				1										<u> </u>									1	_								<u> </u>	_
•	•	TITIY			Width 9.268							7.60	-		0.64	Š	0.57		0.60	2.23	8		10.61	5.30			0.80	4 6	4				24.0	2 2 2 0	2 5	1								4 6	7.7	8	ξ.	\$7.51	; ;
÷		QUAN) //		F1(No.3.1/19)	(m.p.)					:	-						:																											concrete	ŀ	ľ	
			}	y No.:	: azıs	2								1				7				3				¥	Ì		-					ì						ŀ								1	
√ ¶∖		Table	Package	Sluiceway No.: Nos.of lane:	Conduit size Leneth:		-	-		- 7	Conduit	-	7	P.,	4	٧.	છ	Conduit 2		€1	3	Conduit 3		<u>(1</u>		Conduit	- ;	7	-	Onties.	-	1	-	*		5			- -	1	1	1	•	- (٠ 	-oundation		Total	j
			å, i	カス	0.7	L		!,	<u>=i</u>	1.	IO	jJ		_1	_ !-	_1	_1	Ų;			ئـــا	<u>U</u>		1	1	Ŀi.	.i .		_1,	<u> </u>	i.		!	1		_!_	.1`	-1-	J	1_	_1.	.1.		•				.	

LATION OF FORM No.3. 1: KM50+31m Gate type: 5	F2(No.3.1/20) (sq.m)		2.69			0.87]						10,83										0.51		05.6	1.47					76.61
QUANTITIY CAL. SKM-6R Locat Width 9.386 m	(No.3.1/19) (sq.m)			-	6.29		0.64	0.64	0.57		0.54	67.7		10.83	5.42			08.0	1.6.4.1	07'7			07.0	2.23	2.62						13.72	concrete	<u> </u>	84.42
Table Package 1 Sluiceway No Nos.of lane: Conduit size: Length:	ű.	Inlet 1	2	Conduit 1	(1 6.	ব	\$	9	Conduit 2	-	F3 m	Conduit		2	3	Conduit 4		7	2 1 1 1 C	1	2	-		9	7	Outlet 2	 	न	Outlet 3		Foundation		Total

QUANTITY CALCULATION OF FORM WORK

Slide Gate 0.8 m No.3.1/19, 20 Package 1
Sluiceway No.: SKE-1L Location: KE01+5m
Nos.of lane: 1
Width 0.8 m: Height

Width 3.602 m Length:

F2(No.3.1/20) (sq.m) 0.16 F1(No.3.1/19) (S. 3.

0.06 5.90 1.24 36.97 Foundation concrete Conduit-2 Total

Stide Gate 1.0 m No.3.1/19, 20 Table QUANTITIY CALCULATION OF FORM WORK Package 1
Sluiceway No.: SKM-7R Location: KM54-26m
Nos.of Jane: 1
Gate type: Slide Ga
Conduit size: Width 1.0 m: Height 1.0 m F2(No.3,1/20) Width 8.961 m 8 27.22 0.8 15.73 3.48 08.0 0.52 2.65 0.75 6.35 F1(No.3, 1/19) Foundation concrete Total Table QUANTITIY CALCULATION OF FORM WORK tage 1

1

Flap Gate 0.4 m Package 1
Sluiceway No.: SKE.2L Location: KE12-32m
Nos.of iane: 1
Container wire: Width 0.4 m: Height Width 2.658 m Conduit size: Length:

Flap Gate 0.4 m

0

	*							
	F2(No.3,1/20)	(sq.m)		0.81	80.0	2.73		
11 6000.7	F1(No.3,1/19)	(sq.m)			80.0	2.73	0.46	0.16

•		Table OUANT	TIYO	OUANTITIY CALCULATION OF FORM WORK	NAOW WORK
	Package	. : . ==			No.3.1/19, 20
	Sluiceway	way No.: SKE-3L	1 -	Location: KE13+0m	
	Nos.o	Nos.of lane: 1	. 2 * . 1 .		Flap Gate
	Cond	Conduit size: W	Width	0.4 m . Height	E + 0
	Length		2,660 m	•	
:		F1(No.3,1/1	_	F2(No.3,1/20)	
		(w.ps)		(m.ps)	
	17101		<u> </u>		
	_		<u> </u> 	0.81	
	7		0.08	0.08	
	m		54.	2.42	
			0.43		
	٦		0.16		
	Conduit	ıit -1			
	1		 	0.22	
	1,5			0.77	
	3			0.27	
	4	-	-	0.54	
	3		-	0.12	
	9			0.54	
٠.	Conduit-2	nit-2			
			0.72		
	2		1.30		
	e		16.0		
	4		0.52		
	Outlet	1			
			0.90		*
	7		0.54		
	3			06.0	
	4		0.47		
	Ourlet	-2			
				0.47	
	Outlet	- 3			
	-		6.34		
	5		2.00		
	Foundation	concrete	- 2		
	_		5.50		
			-		
	Total		32.28	7.15	

SW-105

0.0 0.54 14.0

Foundation concrete

Table QUANTITIY CALCULATION OF FORM WORK kage 1

Flap Gate 0.4 m Package 1
Sluiceway No.: SKE-5L Location: KE31-43m
Nos. of lane: 1
Conduit size: Width 0.4 m: Height

F2(No.3.1/20) (w'bs) Width 1.700 m (m.ps)

S 5 6.17 0.47

FORM WORK	Side Car																					4			•											
CALCULATION OF PO	Location: KE25-5m.	O.N H. Height	E	72(No.3.1/20) (xo.m)		00.1	24.				12.0								\$.69								0.36			92.	0.89				12.93	
Table QUANTITY Package I	Sluiceway No. : SKE-4L		10.9	FI(No.3.1/19)	Injec 1			אין א	0.30	oi¢ 1	0.0	1900	27	100	7 -	11.3	5.69	2 2.85		11.4	0.0	200		2		C		Outlet 2		3	1	Course	Foundation concrete	06.7	Total: 63.87	

I)

()

Slide Gate

FI(No.3.1/19) (sq.m) (sq.m) 0.16 0.16 0.43 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32 0.32

Slide Gate 0.9 m Table QUANTITIY CALCULATION OF FORM WORK
Package 1
Sluiceway No.: SKE-2R Location: KE25-5m
Nos.of lane: 1
Cate type: Slide Gate
Conduit size: Width 0.9 m: Height 0.9 m F2(No.3.1/20) 8 F1(No.3,1/19)

Foundation concrete

Sw-109

Table QUANTITIY CALCULATION OF FORM WORK Package 1 No.3.1/19, 20 Sluceway No.: SKE-3R Location: KE31+0m Nos.of lane: i Gate type: Flap G Conduit size: Width 0.4 m: Height 0.4 m
Package Sluceway Nos.of lar Conduit s

	<u> </u>		Ι-	 	0.77	0.30		.62	 i	· 	_	<u> </u>	1.	153	13,		0.54	 		Γ	ī		0.00		Γ-	0.47	i	6.52
	F2(No.3.1/20)	(wam)																								0		9
٤	F.7()	,																										
1,700	(61/13	(E					09.0		1.62	0.44									0.56	0.99	1	74	-	0.47		· · · · · · · · · · · · · · · · · · ·		6.12
	F1(No.3,1/19)	(sq.m)] 					- 2			P-4				2			
Cength				Ince	-	77		4	.\$	9	Conduit	-	7		4	S	9	Conduit	1	61	Outlet -	2	3	7	Outlet -			Total

QUANTITIY CALCULATION OF FORM WORK Table

1

Package 2
Sluiceway No.: STM-1L Location: TM2S-13m
Nos.of lane: 1
Width 0.8 m: Height

Slide Gate 0.8 m

F2(No.3.1/18). (sq.m)

F1(No.3.1/17) (£,£)

Length:

0.38

Slide Gate I.0 m

Table QUANTITIY CALCULATION OF FORM WORK
Package 2 No.3.1/17, 18
Sluiceway No.: STM-2L Location: TM30-10m
Nos.of lane: 2 Gate type: Slide Gat
Conduit size: Width 1.0 m: Height 1.0 m
Length: 2.200 m

()

	Inlet	(w'bs)	(sq.m) (sq.m)
<u> </u>	4 4 4 2 6	0.45	0.7
101 1 1 1 1 10	Conduit S S S Conduit Conduit		2.8 2.8 0.9 0.3 0.3 1.8 1.8
	Outlet 2 3 3 3 4 4 4	0.70	
	7 outlet 7 6 5	4) + 4 (2) [] [] [] [] [] [] [3.97

SW-109

Foundation concrete

Total

QUANTITIY CALCULATION OF FORM WORK

QUANTITY CALCULATION OF FORM WORK

Sluiceway No.: STM-3L Location: TM30+16m Nos.of Jane: 1. Gate type: Conduit size: Width 0.8 m: Height

Width 2,200 m

F2(No.3.1/18) (E. (X)

FI(No.3.1/17) (wd.m)

No.3.1/17.18

Slide Gate 1.0 m No.3.1/17,18 Table QUANTITIY CALCULATION No. Stuiceway No.: STM-4L Location: TM33+13m Nos.of lane: 1 Width 1.0 m: Height

Width 2.200 m

FI(No.3.1/17)

F2(No.3.1/18) (sq.m) (sq.m)

Slide Gate 0.8 m

18.47

17.33

Total

QUANTITIY CALCULATION OF FORM WORK
No.3.1/17, 18

Flap Gate 0.4 m

()

Package 2 Sluiceway No.: STM-1R Location: TM25-13m

No.3.1/17, 18

QUANTITIY CALCULATION OF FORM WORK

Slide Gate 0.8 m

Width 3.786 m

Nos.of lane: Conduit size: F1(No.3.1/17) (£, 2)

Gate type: 0.8 m: Height F2(No.3.1/18)

	: च		· ·		1			· -	r÷.	<u> </u>	(V)			m	73	····				i - i	लि
16.0	0.2	0.91									0.45		•	5.13	77.1						15.83
				90.9	3.04				7.10	.32							12.08	-0.39		5.90	32 00
:				•													1)-	Foundation concrete		
च	\$	9	Conduit-2		2	Outlet - 1	77	, m	4	8	9	Outlet - 2	 C3	3	ं उ	Outlet - 3		. 2	oundation		 Total

Table QUANTITIY CALCULATION OF FC
Sluiceway No.: STM-2R Location: TM30+3m
Nox.of lane: 1
Conduit size: Width 0.4 m: Height F2(No.3.1/18) (sq.m) Width 7.030 m 30.76 0.48 0.62 2.33 0.84 8 6 4 5.80 FI(No.3.1/17). (s. 35) Partition wall

No.3.1/17, 18 Table QUANTITIY CALCULATION OF FORM WORK

Package 2
Sluiceway No.: STM-3R Location: TM35+0m

0.8 m : Height Width

Conduit size:

cuch:

(EL 9)

Inlet !

Slide Gate 0.8 m

Slide Gate

No.3.1/17, 18

Table QUANTITIY CALCULATION OF FORM WORK

F2(No.3.1/18) 7.840 H 8 - 0 8 0.0 90 F1(No.3.1/17)

Conduit

Conduit 2			
1	0.63		
C 3	2.04		٠
3	0.74		
Conduit 3			
-	58.6		
11	16.5		
3		9.82	
Conduit 4			
-	0.84		
2	2.65		
3	1.82		
Outlet 1			
2			
£			
7	8.63		
8	1.36		
9	2.29		
7		0.45	
Outlet 2			
1-1			
2			
3		2.26	
4		1.28	
Total	43,95	18.57	

2	٠.	Ë	 V	i Spire	1					9.	4.4		3.21				0.61	5	50	8	0.33	8								1		8				2.16			4.59	
2 2		NX3410B	Sate type	m : Height		(817	(()		,																										-	
7			V	Ξ	*	F2(No.3.1/18)	(sq.m)																																	
֡֝֝֝֝֟֝֝֟֝֝֟֝֝֟֝֓֓֓֟֝֝֟֝֓֓֓֟֝֟֝֓֓֓֓֟֝֟֝֓֓֓֓֓֓		Location			E	Œ.																																		
1	1 !	Z.	i.	Width	2.200	7)						0.88		3.21	0.65									0.24	1.12					6.33	1.45								13.88	
2.00		SNM-1R				FI(No.3.1/1	(m.ps)					٠																											-	
ບູ	~	. oz	lane :	: azıs		FIC)																-2			1							2.						·	
Table	Package	Sluiceway	Nos.of la	Conduit:	cngth:			-	Inlet 1	_	C+		4	2	9	onduit		C+	<u>س</u>	4	5	9	onduit		C4	•	-	2	3	4	5	9	Outlet		CΙ	8	7	-	Total	
	ρ.,	S	Z .	O	.J	_	-	L			1		L	l	i	<u> </u>	<u>i </u>	l		<u>! .</u> !	L		V	!j	L:				لـــا				!⊻.	i	_	1	لبا	Li	Ľ	

Table QUANTITIY CALCULATION OF FORM WORK
Package 3
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Sluickage 3
Conduit size 2
Conduit size 10 m : Height 1.0 m
Length : 10 m

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Slide Cate Table. QUANTITIY CALCULATION OF FORM WORK Package 3

Sluiceway No.: SGM-3L Location: GM15+24n
Nos.of Jane: 1
Gate type: Slide Gate Conduit size: Width 0.8 m; Heigh 0.8 m 11.336 H Width Conduit size:

Slide Gate 0.8 m

No.3.1/25, 26

Table QUANTITIY CALCULATION OF FORM WORK

Package 3
Sluiceway No.: SGM-1R Location: GM04+14m
Nos.of lane: 1
Width 0.8 m: Height Width 3.978 m

Length.:

E 6.5		
Co H.: Height		(75)
6 5		F1(No.3, 1/10)

											٠															
(sq.m)		90:	2.65			0.84									7.87								-	0.49		100 C
(3.0.m)				57.4	0.72		0.64	79.0	0.57	0.52	3.05	0.92	13.87	6.94		0.80	13.78	4.35			8.07	2.13	2,47			

					13.87												0.49			2.39	1.38						22.67	-
0.52	3.05	78.0	13.87	6.94			08.0	13.78	4.35				:	2008	2.13	2,47							13.08	1.80) concrete	2,90	84.97	
-	77,	, , ,		2	3	Conduit 4	_	۲٦	3	Vilet]	-1	. 2	33	4	5	9	7	Jutlet 2	 2	3	-7	Jutlet 3		2	Coundation concrete		Total	

()

	F1(No.3.1/25)	FZ(No.3.1/26)
	(m.px)	(w'bs)
iner I		
		1.64
63		
3		3.98
4		
S	0.32	
Conduit		
_		77.0
5,		1.42
۳,		0.45
4		68.0
2		0.24
۴		0.89
Conduit-	lif-2	
-		
2	3.04	
Outlet		
C.4		
1		The state of the s
4		
5	1,29	
6		0.45
Outlet	-2	
2		
3		5.06
4		1.22
Outlet	- 3	
	11.90	
C.1	0.70	
Foundation	ation concrete	
	5.90	
Total	39.00	15.94
-	_	

No.3.1/25, 26 QUANTITIY CALCULATION OF FORM WORK Table QUANTITIY CALCULATION No. Sluiceway No.: SGM-2R Location: GMI2+0m Nox of lane: 1 Width 0.8 m: Height

F2(No.3.1/26) (H.P.)

F1(No.3,1/25) (E. S.)

eneth:

8.0

Slide Gate 0.8 m

Slide Cate 1.3 m

JW-115

41.50

Total

13.23

Outlet - 3

Foundation concrete

Table QUANTITY CALCULATION OF FORM WORK

Package 3

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QUANTITIY CALCULATION OF FORM WORK No.3.1/25, 26

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Stude Gate 1.0 m

Sluceway No.: SCM-51. Lavanus: CN30-0m Nosofiane: 1 Gaie type: Conduit size: Width 1.0 m: Height

Table QUANTITIY CALCULATION OF FORM WORK

Slide Gate 1.1 m Table QUANTITY CALCULATION OF FOR Package 3
Sluiceway No.: SCM-4L Location: CM27-21m
Nos.of lane: 1
Conduit size: Width 1.1 m: Height Width 2.000 m

	(w.ps)	(w.ps)	
Injet 1			
-		2.24	
2		0.30	
3		0.36	
1	2.98		
S	0.88		
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	9,75		÷.
2	1.02		
3	2.85		
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9		4.89	
6		2.68	
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10			
::		3,87	
12		1.6.1	
Paraper	t wall		
-	34.09		
2	2,42		
Foundation	concrete		
	5,49		
Total	18.69	15.99	
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erh: 7.61X	F10Na, 3,1, 25)	(Apple)	1 1			m wall (Inlet)	5,00			1,47	0,40		13	95.				1,000	11.4	 	 -	75			-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C	2.	The second of th	200			on wall (Outlet)		9,72		3.06				12.2					7			16.47	Contonio	90 %		3,58	115.51	
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Puckage 3: No.N.P.C. Location: CM41-40n No.N.P.25, 26
Sloveway.No.: SCM-70. Location: CM41-40n
No.N.P.C. School CM40 Slove Slove Conduit vice: Slove Case
Conduit vice: Walth 1.1 in: Reveh: 1.1 in:

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Table QUANTITIY CALCULATION OF FORM WORK
Package 3
Sluiceway No.: SCM-8L Location: CM47+34m
No.soflane: 1
Gate type: Slide Gate
Conduct size: Width 0.9 m: Height 0.9 m
Length: 6.372 m
Length:

	F2(No.3,1/26)	(sq.m)		80.1	2.70	
: 0.372 m	F1(No.3.1/25)	(w.b.)				
Ę	Г		ود	-	77	į

Package 3 Suiceway No.: SCM-1R Location: CM15-10m Nos.of lane: 1 Gate type: Slide Gate Conduit size: Width 1.2 m: Height 1.2 m Length: 4-429 m Length: 4-429 m Length: 6sq.m) Inlet 6sq.m) (sq.m) (sq.m) (sq.m) Inlet 0.24	Table QUANTITIY CALCULATION OF FORM WORK		500
Tay No.: SCM-IR Location: CM13-10m Gate type: Side type: 1.2 m: Height 1	<u>.</u> د	;	40.3.1/25, 26
Fi(No.3.1/25) Fi(No.3.1/26) (sq.m) Fi(No.3.1/26) (sq.m) Fi(No.3.1/26) (sq.m) Fi(No.3.1/26) (sq.m) Fi(No.3.1/26) (sq.m) Fi(No.3.1/26) Fi(N	o		
Fi(No.3.1725) F2(No.3.1726) (sq.m) (sq.m) (sq.m) (sq.m) (sq.m) (sq.m) (.24	•	1.2	
Fi(No.3.1/26) (sq.m) (s	4	E	
(sq.m) (s	١.	F2(No.3.1/26)	
2 0.24 4.33 4.33 4.33 1.11 0.48 5.00 5.00 6.00	(m.ps)	(w.ps)	
2 0.24 4 4.33 10.11 0.48 10.11			
it-1 0.24 0.43 0.48 11 7.09 1.59 1.59 1.4.28 1.4.28 1.14.28	- 1		
1. 2. 2. 6.8 1. 3.68 1. 3.68 1. 3.68 1. 3.68 1. 3.68 1. 3.68 1. 5.9 1. 5.9 1. 5.9 1. 5.9 1. 5.9 1. 5.9 2. 2. 45.39		961	
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11-2 7.09 -1 3.68 -1 8.39 -2 1.59 -3 14.28 -3 14.28 -1.74 attion concrete. 6.30	4	1,07	
10.2 7.09 7.09 7.09 7.00 7.00 7.00 7.00 7.00	2	0.36	
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45.39			-
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SW-119

Table QUANTITIY CALCULATION OF FORM WORK Rage 3 No.3.1/25, 26

Package 3 Stuiceway No.: SCM-2R Location: CM16-4m Nos.of lane:

<u>.;</u> Width 2,000 m

F2(No.3.1/26) (e.b.)

> F1(No.3.1/25) (E,0)

Conduit size:

cneth:

Slide Gate 1.0 m

Table QUANTITIY CALCULATION OF FORM WORK
Package 3 No.3.1/25, 26
Sluiceway No.: SCM-3R Location: CM26+1m
Nox.of lane: 1 Gate type: Slide Gate
Conduit size: Width 1.0 m: Height 1.0 m

Width 2.000 m

Length:

Slide Gate	E E
Gate type:	m : Height

		(w'bs)	(m.ps)
	Inlet		
	2		
	3		
-	.,	2.15	
	S		
	Conduit	11	
		9.79	
	2		
	<u>ر</u>		
	1.4		
	5		
	9		
	1		
	∞		
	6		
	0.		
	=		
	12		
	Parap	Parapet wall	
		30.90	
	2	2.53	
	Found	Foundation concrete	
	_	5.07	
	Total	29.00	
	_		

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9.94 2.92 3.35 0.58

3.46

5.74

Foundation concrete

19.99

हु

2.43

Paraper wall

()

Table	QUANTITIY CA	Table QUANTITIY CALCULATION OF FORM WORK	M WORK
Package 3		No.3.1/25. 26	3.1/25,26
Sluiceway No.	: SCM-7R 16	Sluiceway No.: SCM-7R Location: CM47+53m	
Nos of lane:	-	Gate type:	Slide Gate
Conduit size:	Width	0.8 m : Height	0.8 m
Length:	. 9.369 m	9.369 m	

State Gate

Package 3
Sluceway Nn. SCM-nR Luciation: CM43-30m
Social sav: 1
Gait type:
Conjunt size: Width 1,1 in: Height Leriph:
Social size: 5,5,3, in

Table QUANTIFIY CALCULATION OF PORM WORK

			F1(No.3.1/25)	F2(No.3.1/26)
		-	(xq.m)	(m.ps)
		Inler 1		
				00.1
		(1		2.51
		Partition wall		
			5.77	
		(1	9 7 ,*	
		-	0.30	
		Conduit 1		
	٠.	-	06.6	
		Ē	3.38	
		3		0,73
		F	49.0	
	:		200	
		9	0.57	
		Conduit 2		
			97.0	
	. :	(7)	2.23	
			41.1	
		Continue		
			65.01	
		c	5 79	
:		ľ		10.59
		Conduit 4		
		-	0.80	
		F 3	19.27	
		1	84.4	
		1		
		1		
		4	9.14	
		•	2.30	
		8	2,85	
		7		0,55
		Outlet 2		
		-		
		-,		
		3		2.65
		7		8.
		Outlet 3		
			11.03	
			2.03	
-		Foundation	Oncrete	
		17	4,90	
	٠			
		Total	104.33	19.64

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wall (Outlet)

Packay3: Saluran Engkarong Drainage Channel Outlet Slurreway

/25 Form F1

(00,266 m2 (See No.10) for Joints

Genculurit + Sluke way 1.85x/5.3+0.8×5.5x2+(0.5+0.8)×3.86×2=47.141 m2

Earth: (1,7+0,566+265+0.283+0.819)x16.3=98.012 m2

outlet wing : (4.50x2+0.3)x3,7+1.0xa5 1x2=55.02 m2

Outlet : end: 15.3 × 1.3 = 19.89 m2

Side: (2.4+0.924) × 4.95 x2 = 27.958 m2

end . 0.55x22.3 = 12.265 m/

055x165=9.075 m2=

0.55 x 4.95 x2 = 5.445 m2

Conduit Side: (12.3x3.45+2.1x0.31+0.4x0.4x42+1.45x2.7)x2 = 94.33 m2 0.4×16.3=6.52 m2

wing wall (4.0x3.0-2.5x2.5 x 1/2) x2+a 3x1.5x2=18.65 m2

partition wall: 0.5x2 x(6+62)+0.3x2=12.8 1 m2

Hoist: (1.1x2.65x2+27x3.05+075x29x2+02x4x29+1.1x2.7+03x23)x5 = 121,975 m for 2nd concrete

1(0,2+0,25)x2+0,6x2.7x2+0.5x2.37x5=33.20 m2

Inlot Side: [5.45 x 4.5 - (0.5 +2.85) 1/2 x 1.09] x 2 = 45.399 m2

end: 1.85×15.3+(05+08)×10.547 = 42.016 112

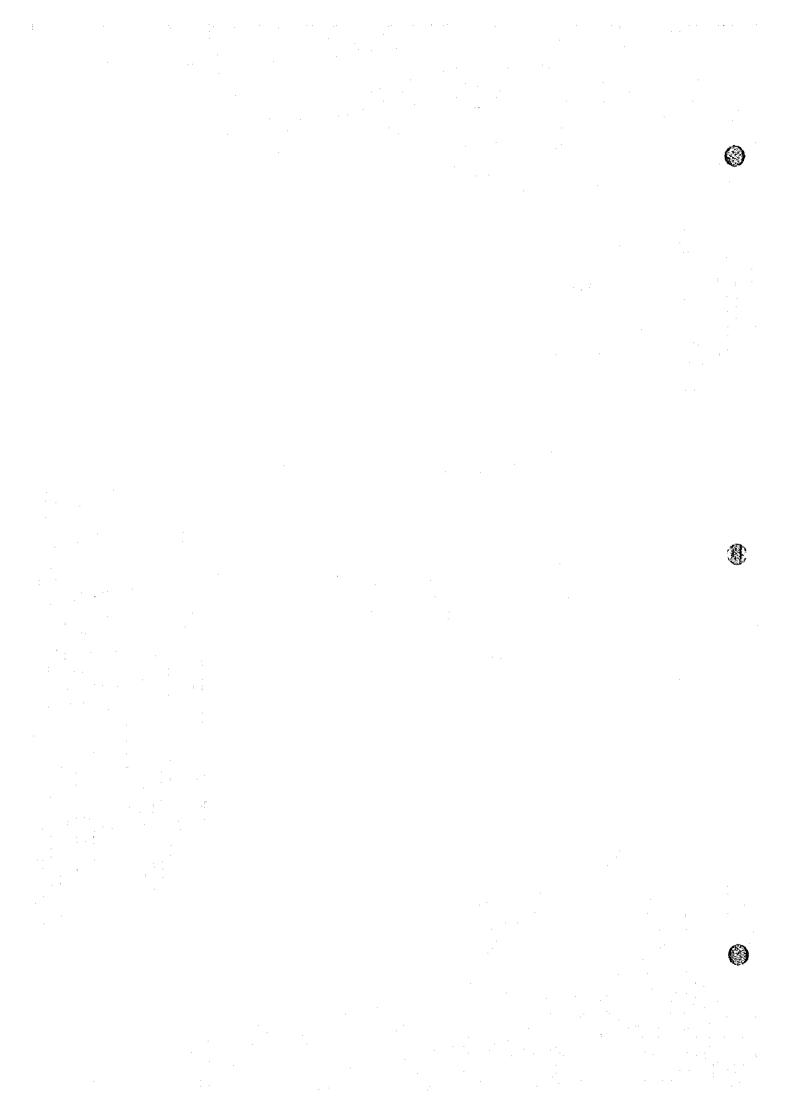
649.696 n2 Total

Padrage 3 Saluran Conglareng Drainage Channel Outlet Sluice way

126 Form F2. Outler Endsill: 067/x15,3=10,264 m2 Outlet Side: 2717 x 495x2=26.898 m2. Conduit : water pass (2466x2+2,3)x5=36,157 m2 Corduit open (2.7×2×5)×1.0 = 27.0m2 : pier to outlet (0.55x10+0.8x3+1.2) x2.7=2457 m2 end(downstream) 0.3x2.3x5+02x0.2x5=3.65 m2 : end (upstream) 2.6x2.5x5=32.5m2 Wingwall: (40x 30-9.5x2.5x1/2)x2+a3x1.5x2 =18.65 m2 Hoist: (0.3×2)x16.3+0.3×2.7×2 +0.45×163 =18735 212 end (0.8x3+0.6x2)x265+0.15x0.5x5=9.915 m2 Inlet Pier: (1.15 x 2 x 5 + 0.6 x 3 + 1.0 + 1.45 x 2.5) x 5 + 0.2 x 15.5 = 87.725 m2 2.407x15.5 = 37.309 m side(inside) 14.932x2 = 29.869 m² side wall stope 2.59 x 0.5 x 2 = 2.59 m2

Total 365.827 m2

1.3.2 Connection canal / Cross drain



Summary of Work Quantities, Connection Canal / Cross Drain

0

Descritorion	1	Total			Kamal		[
		Package 1	Stage	Starc2		Stage3	
		,	main	main	Total	main	branch
Connection Canal / Cross Drain				-	-	1	
3) Coffering and care of water including dewatering	L.S.				-		
02 Trench excavation	S.B.	2,064	105	883	1.076	1 641	897
03 Backfilling with excavated materials	E,3	423	21	172	230	35	195
Of Geofestile, to 1.5 mm	8	142			142		142
05 Gravel bedding	CU,T	365	7.	145	203	31	172
06 Concrete, type 4, for slab, strut and facing concrete of wet rubble masonry cu.m	Cu.m	8			8 0		81
07 Concrete, type S, for leveling	E,5	5			\$		5
08 Form, type F2, for Item No. 3.2/06	8	95			56		95
09 Reinforcing bars, for Item No. 3.2/06	Ķ	963			5963		8
10 Rubber joint filler, t=10 mm	£0.₩	9		}	9		9
11 Precust concrete culvert, 400x400mm	lin.m	\$		7	42	4	38
12 Precast concrete side ditch, U-type, 400x400mm	m'ur	7,556	421	7,557	3,578	719	2,859
13 Precast concrete side ditch, L-type, 300x300mm	in.m	825			825		825

Package 2	Ì			
item Description No.	Ç Ç	Total Package 2	Tanjungan	PIK Junction
3.2 Connection Canal / Cross Drain	-			
/ 01 Coffering and care of water including dewatering	L.S.			
/ 02 Trench excavation	Cu.R	85.	253	47
/ 03 Backfilling with excavated materials	C.3	8	15	6
/ 04 Gravel bedding	E,io	57	43	4
/ 05 Precasi concrete culvert, 400x400mm	in.m	90		×
/ 06 Precast concrete side direh, U-type, 400x400mm	E, E	1,017	1,017	
/ 07 Precast concrete side ditch, L-type, 300x300mm	in.a	320		320
	_			

HUNDA					-	
ltem Description		Unit	Total	Gede/Bo	Saluran	Meruya
No.			Package 3	· · .	Cengkareng	
.2 Connection Canal / Cross Drain						
/ 01 Coffering and care of water including dewatering		S				
/ 02 Trench excavation		CC.m	2,323	373	1.950	
/ 03 Backfilling with excavated materials		E.U.D	453	75	378	
7 04 Grave! bedding		E'no	398	69	329	
105. Concrete, type 4, for slab, strut and facing concrete of wet rubble masoury cu,m	ete of wet rubble masonry	CA.M	1	-		
/ 06 Concrete, type 5, for leveling		Ce.3	-			
/ 07 Form, type F2, for Item No. 3,2/05		Š	90	80		
/ 08 Reinforcing bars, for Item No. 3.2/05		X.	946	99	1	
/ 09 Rubber joint filler, t = 10 mm		ē.	2.	2		
7 10 Precast concrete culvert, 400x 400mm		lin,m	\$	6	12	
11 Precast concrete side ditch, U-type, 400x400mm		lin.m	6:1:6	1,480	7,859	

Calculation formula

3.2 Connection canal/Cross Drain

9 Side ditch

Length of Side ditch: L(m)

/03 Back filling with exacated materials. $L \times d \times 0.3d = 0.3d^2 \times L$

/os Gravel Bedding. (0/04) dx0.1xL.

/", /12, /13 Procost concrete side ditch (or/s/06, 101) L (lin.m)

Culvort L4+L5 = Length of culture 102 Trench excavorian

1 + x(Bo+0.6) + H x H 1 x(L4+L5)

23 Back-Alling with excavated materials

H×H× (54+52)

750+0H = H

(or/or) $\int (B_0 + 0.4)(H_0 + 0.45) - H_0 B_0 + 2x_0.|x_{0,1}| \times (L \# + 1.5)$ + $(0.35 + 0.45 \times 2.7 \times 35) \times [2(B_0 + 26) + 2H_0] \times (0.45 B_0 + 24) \times (-4.2)$

107 Concrete type 5 (0906) (Bota 6)x (L5+L4) xo./ 108 From type F1 (or/or) S,=(Hotalfs)x2x(L5-a25)+(Ho+0.65)x(0.25+0.35)x2 S2=(Hox2+Bo)(24+L5) S3={(Ho+0.65)x(Bo+0.6)-HoBo}x2 = f0.6Ho+0.65Bo+0.39 yx2 = 1.2Ho+1.3Bo+0.78

109 Rainfacing bars (0008) Tile 10) x 60 (fg/m²) 110 Rubbor joint filler (0+/01) 0,35x KII8x (Ho+0,65) x2 = 0783x (Ho+0.65)

o Drain ditch. L3+L4 = length of culture.

102 Trench excavorion 1(Bo +0.5)x (H0+0.25)+ (H0+0.25)2 (4.3+24)

103 Back filling (+6+025)*x((-3+24) /06 Concrete type 4 (0π65){(Ho+o.15)x0.15x2+ Box0.15+ 0.1x01 γx(L3+24) - (0.3 Ho+ 0045+ 0.15Bo+001)(L3+64)

(0766) (80+0,5)x0,1x(43+64)

108 Fam type F1 (0707) S, = (Ho+a15)x2x(L3+L4) S2 = (Ho+0.0414)x2x(L3+L4) S3 = (0.3Ho+0.045+0.15 B, +0.01)x(1+1.118)

(07/08) T(124,10) x 60 (49/ms)

(0/69) 0.35 x 1.118 (H0+0.15) x 2 -0783 (H0+0.65)

0.4

Work division: No. 3.2 Concrete Canal / Cross Drain : Side ditch and Cross Drain

Package 1

i i	Discription							Kamal main	_			
-							Side ditch				Cross drain	drain
			Total	Stage1		Stage2			Stage3	·	Stage2	Stage3
No.				Left	Total	Left	Right	Total	Left	Richt	Right	Right
	I amosh of side direktornes drain	, m ci		420.3	3.556.5	1.356.7	2.199.8	717.7	102.1	615.6	0.4	0,4
	Size of precart side dith	E		0.4		0.4	0.4		0.4	0.4		
7 02	/ 02 Trench excavation	cu.m	1,164.2	104.2	882.0	336.5	545.6	178.0	25.3	152.7		
/ 03	/ 03 Backfilling with excavated materials	cu.m	225.3	20.2	170.7	65.1	105.6	34.4	4.9	29.5		
/ 05	/ 05 Gravel bedding	cu.m	191.2	16.8	142.3	54.3	88.0	28.7	4.1	24.6	1.7	7:1
/11	7 11 Precast concrete culvert, 400x400mm	lin.m	8.0					٠.			4.0	4.0
/ 12	/ 12 Precast concrete side ditch, U-type, 400x400mm	in.m	4,694.5	420.3	3,556.5	1,356.7	2,199.8	7.17.7	102.1	615.6		
/ 13	7.13 Precast concrete side ditch, L-type, 300x300mm	E C									:	

: Side ditch and Cross Drain No. 3.2 Concrete Canal / Cross Drain Work division:

Package 2

()

1

1

8.0 3.0 4.0 0.0 Cross drain Right 0.3 46.9 9.6 319.1 319.1 Side ditch Right 137.6 0.4 6.6 5.5 137.6 34.1 Side ditch Right 200.3 0.4 9.6 200.3 49.7 Tanjungan 47.0 9.1 189.5 189.5 0.4 Side ditch Left 0 120.9 23.4 19.5 487.7 487.7 lin m lin.m lin.m lin.m cu:m cu.m cu.m E Precast concrete side ditch, U-type, 400x400mm Precast concrete side ditch, L-type, 300x300mm Precast concrete culvert, 400x400mm Backfilling with excavated materials Discription Size of precast side dith Length of side ditch Trench excavation Gravel bedding / 04 Item 2 Z

No. 3.2 Concrete Canal / Cross Drain Work division:

Package 3

: Side ditch and Cross Drain

Item	Discription			Gede/Bor			S. Cen	 Cengkareng 	
			Side ditch	litch	Cross drain	Side	Side ditch	Cross	Cross drain
Š		:	Left	Right	Right	Left	Right	Left	Right
		:							
	Length of side ditch	lin.m	305.0	1,174.7	19.0	3,801.2	4,057.8	12.0	15.0
4	Size of precast side dith	æ	0.4	0.4	H × 4	0.4	0.4		
6	(02 Trench excavation	cn:n	75.6	291.3		942.7	1,006.3		
8 8	Backfilling with excavated materials	Cu.m	14.6	56.4		182.5	194.8		
, / 3 \	O4 Gravel bedding	G.i.s	12.2	47.0	8.2	152.0	162.3	5.2	6.5
8	Precast concrete culvert, 400x400mm	lin.m			19.0	:		12.0	15.0
/ 10	10 Precast concrete side ditch, U-type, 400x400mm	lin.m	305.0	1,174.7		3,801.2	4,057.8	-	

Work division:

No. 3.2 Concrete Canal / Cross I: Culvert

Package 1

()

1

Item	Discription		Kamal	branch
No.			Left CKE-1L	Right CKE-IR
	Height of drain ditch: H0 Width of culvert: B0	m m	0.6 0.6	0.8 0.8
	Length of culvert: L4	m m	0.768 7.100	0.874
				7.100
/ 02	Trench excavation	cu.m	21.263	29.603
/ 03	Backfilling with excavated materials	cu.m	10.405	14.533
/ 06	Concrete, type 4	cu.m	6.162	7.721
/ 07	Concrete, type 5, for leveling	cu.m	0.944	1.116
/ 08	Form, type F1, for Item No. 3.2/07	sq.m	32.327	40.783
/ 09	Reinforcing bars, for Item No. 3.2/07	kg	369 .7 37	463.267
/ 10	Rubber joint filler, t = 10 mm	sq.m	0.979	1.135

Work division:

No. 3.2 Concrete Canal / Cross 1: Drain ditch

Package 1

Item	Discription		Kamal b	ranch
			Lef	t
No.			DKE-IL	DKE-2L
•				
	Height of drain ditch : HO	m.	0.8	0.6
	Width of culvert: B0	m ·	0.8	0.6
15	Length of culvert: L3	m :	0.758	0.753
:	L4	m	3.000	1.000
			:	
/ 02	Trench excavation	cu.m	9.273	2.906
/ 03	Backfilling with excavated materials	cu.m	4.143	1.267
/ 06	Concrete, type 4	cu,m	1.560	0.570
/ 07	Concrete, type 5, for leveling	cu.m	0.489	0.193
/ 08	Form, type F1, for Item No. 3.2/06	sq.m	14.343	5.567
/ 09	Reinforcing bars, for Item No. 3.2/06	kg	93.574	34.184
/ 10	Rubber joint filler, t = 10 mm	sq.m	1.135	0.979



Work division:

No. 3.2 Concrete Canal / Cross I: Drain ditch

Package 3

Item	Discription		Gede / Bor
			Right
No.			DGM-2R
	Height of drain ditch: H0	m	0.8
	Width of culvert: B0	m	0.6
	Length of culvert: L3	m	0.989
	L4 .	m	1.000
· / 02 ·	Trench excavation	cu.m	4.490
/ 03	Backfilling with excavated materials	cu.m	2.193
/ 05	Concrete, type 4	cu.m	0.766
/ 06	Concrete, type 5, for leveling	cu.m	0.219
/ 07	Form, type F1, for Item No. 3.2/05	sq.m	7.942
/ 08	Reinforcing bars, for Item No. 3.2/05	kg	45.946
/ 09	Rubber joint filler, t = 10 mm	sq.m	1.135

1.3.3 Metal Works

Weight Table of Gate

			Nos.		Weight (kg)			
:		Size	of		Guide		Weight/	Total
	No.	(m x m)	gate	Gate leaf	frame	Hoist	one gate	Weight
Slide (Gate	<u> </u>	<u> </u>				one gate	- TO SEIN
Packa	ge 1				THE RESIDENCE OF THE PARTY OF T			
Kama	l drainage cl	nannel (Ma	in chan	nel)				the state of the s
Left	SKM-1L	1.2 x 1.2	1	207	383	. 147		737
1	SKM-2L	1.1 x 1.1	1	188	357	142		687
	SKM-3L	1.5 x 1.3	1	272	418	160		850
	SKM-4L	0.8 x 0.8	i	113	326	131		570
	SKM-5L	1.0×1.0	l	162	334	136		632
	SKM-6L	1.0 x 1.0	1	162	326	135		623
	SKM-7L	0.7 x 0.7	1	92	276	122		490
	SKM-8L	1.0 x 1.0	1	162	329	135		626
Right	SKM-1R	1.1 x 1.1		188	357	142	686	1374
	SKM-2R	1.2 x 1.2	1	207	383	147		737
	SKM-3R	1.3 x 1.3	1	250	409	153		812
	SKM-4R	0.8 x 0.8	1	113	315	129		557
:	SKM-5R	0.8×0.8	1	113	310	129		552
	SKM-6R	0.8 x 0.8	1	113	306	128		547
	SKM-7R	1.0 x 1.0	1	162	329	135		626
Kama	l drainage ch	ll	mah ah	\		l		
Left	SKE-1L	0.8 x 0.8	men ena	113	277	126		616
12.11	SKE-4L	$\frac{0.8 \times 0.8}{0.8 \times 0.8}$	1	113	277	125 125		515 515
	- SINIS-4D	V.0 A V.0		113	211	123		313
Right	SKE-1R	0.8 x 0.8	 1	113	252	123		488
17750777	SKE-2R	0.9×0.9	1	130	303	130		563
Packa	ge 2						· .	
Tanju	ngan drainag	ge channel						
Left	STM-1L	0.8×0.8	1	113	284	126		523
	STM-2L	1.0×1.0	2	162	329	138	626	1258
	STM-3L	0.8×0.8	1	113	285	126		524
	STM-4L	1.0 x 1.0	1	162	329	135		626
Right	STM-1R	0.8 x 0.8	1	113	284	126		523
	STM-3R	0.8 x 0.8	1	113	287	126		526
——_[unction drain	lage chann	el			<u></u>		
Right	SNM-IR	1.1 x 1.1	1	188	357	142	т	687
IN IN III I	OLIMIT IN	1.1 % 1.1	L I	1001	3371	1471	I	687

Weight Table of Gate

			Nos.	Weight (kg)				
		Size	of	C.4. J C	Guide	Hoist	Weight/	Total
	No.	(m x m)	gate	Gate leaf	frame	Hoist	one gate	Weight
Slide (Gate	سخمسيم منج				AMENDER OF STREET		
					and the speciment of the speciment and the			
Packa				alamantarium de amerikany lipode, de desse	***	*****		MANAGEMENT OF THE SECOND OF TH
Salura	ın Cengkarei	ig drainag	e chann	el				
	Salurang			. 1				
	Cengkareng	2.3 x 2.3	5	919	576	288		8915
	Outlet Gate	1		•				
								
Left	SCM-1L	1.3 x 1.3	1	250	409	153		812
	SCM-2L	1.2 x 1.2	2		383	147	736	1474
	SCM-3L	1.0 x 1.0	1	162	353	138		653
·	SCM-4L	1.1 x 1.1	1	188	355	142		685
	SCM-5L	1.0 x 1.0	<u></u>	162	326			623
	SCM-6L	1.1 x 1.1	I	188	357	142		687
	SCM-7L	1.1 x 1.1	<u>_</u>	188	357 322	142 132		687 584
	SCM-8L	0.9 x 0.9	1	130	322	132		304
Right	SCM-1R	1.2 x 1.2	<u> </u>	207	384	147		737
Kight	SCM-2R	1.2 x 1.2	i	207	383	147		737
	SCM-3R	1.0×1.0	1	162	347	140		649
	SCM-4R	1.0×1.0	1	162	345	137	+ 1	644
	SCM-5R	1.0×1.0	1	162	342	137		641
	SCM-6R	1.1×1.1	<u> </u>	188	357			687
	SCM-7R	0.8 x 0.8	<u> </u>	113	317	129		559
~ •	<u> </u>	l]	l		1	5	<u> </u>
	Bor drainage		г			1 100	т	
Lest	SGM-IL	0.8 x 0.8 1.0 x 1.0	1 2		299 376			540 1354
	SGM-2L SGM-5L	0.8×0.8	1	113	296			537
	30141-313	V.0 X V.0	-	113	270			
Right	SGM-IR	0.8×0.8	1	113	282	126		521
	SGM-2R	0.8 x 0.8	1	113	299	128		540
		<u> </u>						
	14 4 1 (6)	1- (0-4-)						40434
Gra	and total (S)i	ge Gate)	L	<u> </u>			1	40434
								. :
Flap	Gate						:	40.4
Pack	age 1							
ĺ	al drainage c	hannal (Re	anah al	(lanna			• :	
Left	SKE-2L	0.4 x 0.4	ancii (1	31	33		1 : .	64
Leit	SKE-2L SKE-3L	0.4 x 0.4 0.4 x 0.4	1 1	31	33	- 4		64
	SKE-4L	0.4×0.4		31	33			64
l				[:			
Right	SKE-3R	0.4 x 0.4		31	33	1		64
	<u> </u>	<u></u>				<u> </u>	1	
Pack	age 2					e e		•
Tani	ungan draina	ge channe	1					•
Right	~	0.4 x 0.4	I	31	33	31		64
11511	1 0,771 2.0	V. 1 A V. 7		·	- 33			· · · · · · ·

Gr	and total (FI	ap Gate)	<u> </u>	<u>L</u>		<u> </u>		320







Weight Table of Stoplog

()

8

Gate size	Q* ty	Gate leaf	Guide frame	Total weight(kg)
0.4×0.4	5	51	5×37=185	236
0.7 × 0.7	1	99	44	143
0.8×0.8	16	137	16×52=832	969
0.9 × 0.9	2	150	2×52=104	254
1.0×1.0	14	195	14×60=840	1035
1.1 × 1.1	8	211	8 × 60=480	691
1.2 × 1.2	6	264	6×67=402	666
1.3 × 1.3	2	282	2×67=134	416
1.5 × 1.3	7 1	319	67	386
2.3 × 2.7	5	1190	5×117=585	1775
2.3×3.4	5	1446	5 × 143 =715	2161
Total		4344	4388	8732

Weight Table of Trashrack

Size (m)	Q* ty	Trashrack panel	Embeded metal	Total weight(kg)
10.0 × 2.403	3 set	3×1345=4035	3×110=330	4365

Weight Table of Mesh cover

Size (m)	Q* ty	Mesh cover panel	Anchor bolt	Total weight(kg)
2.0×3.5	3 sets	3×90=270	3×5=15	285
10.0 × 380	570 sets	51300	2850	54150