

TABLES

Table II - 1 General Features of Irrigation and Drainage (Pulau Pinang Scheme)

Description	Features	Remarks
1. Number and Name of Sub-Scheme	5 sub-schemes - Sungai Muda - Sungai Kulim - Pinang Tunggai - Sungai Jarak - Sungai Burung	
2. Number and Name of Irrigation Block	17 blocks 6 blocks (Block M1, M2, M3, M4, M5 & M6) 6 blocks (Block K1, K2, K3, K4, K5, K6) 2 blocks (Block P1 & P2) 2 blocks (Pokok Tampang & Padang Menora) 1 block	Block M1A under rehabilitation partly Block M6 under commissioning process K1A, K2A, K5, K6 non-granary PIB non-granary
3. Net Irrigation Area		
- Sungai Muda	9,832 ha	
- Sungai Kulim	6,888 ha	
- Pinang Tunggai	1,387 ha	
- Sungai Jarak	938 ha	
- Sungai Burung	388 ha	
	231 ha	
4. Water Source	Sungai Muda Sungai Muda Sungai Kulim Sungai Jarak Sungai Burung, Sungai Titi Teras	
5. Intake Method	Pumping Pumping Gravity Gravity + Pumping Gravity	1 main P/S and 1 Booster P/S 1 main P/S and 1 Booster P/S Supplemented from Pinang Tunggai
6. Designed Intake Discharge		
- Sungai Muda Bumbung Lima Pump Station	2.8 m ³ /sec/each x 3 nos. 5.6m ³ /sec/each x 1 nos.	under construction of 8 new pumps (2.8 m ³ /sec/each)
- Pinang Tunggai Pinang Tunggai Pump Station	3.8 m ³ /sec/each x 2 nos. 2.8m ³ /sec/each x 1 nos.	
- Sungai Kulim Headworks	2.50 m ³ /sec	
- Sungai Jarak Headworks	0.84 m ³ /sec	
- Sungai Burung Headworks	0.50 m ³ /sec	
7. Unit Field Water Requirement		
- Sungai Muda	2.6 lit/sec/ha at peak	
- Sungai Kulim	2.6 lit/sec/ha at peak	
- Pinang Tunggai	2.6 lit/sec/ha at peak	
- Sungai Jarak	2.6 lit/sec/ha at peak	
- Sungai Burung	2.5 lit/sec/ha at peak	
8. Irrigation Facilities		
Main canal		
- Sungai Muda	7.8 km	Sedimentation in main canal
- Sungai Kulim	6.7 km	
- Pinang Tunggai	13.9 km	
- Sungai Jarak	5.8 km	
Secondary canal		
- Sungai Muda	67.9 km	
- Sungai Kulim	7.7 km	
- Pinang Tunggai		
- Sungai Jarak	3.0 km	
Tertiary canal		lined by concrete
- Sungai Muda	202.4 km	
- Sungai Kulim	24.2 km	
- Pinang Tunggai	29.6 km	
- Sungai Jarak	7.8 km	
Related Structures		
- Sungai Muda	407 nos.	
- Sungai Kulim	60 nos.	
- Pinang Tunggai	100 nos.	
- Sungai Jarak		
9. Drainage Facilities		
Main & secondary drains	95 km	
Tertiary drain	207 km	
10. Farm Road	340 km	4-5 width with laterite surfacing

Table II-2 (1/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(1/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Muda Main Canal	7,800.0					
<i>Block M1</i>						
TA A	6,589.4					
TA A-1R	200.0	5.3	19	10		
TA A-2R	400.0	16.2	59	29		
TA A-3R	300.0	9.0	33	16		
TA A-4R	300.0	7.3	26	13		
TA A-5R	1,000.0	28.4	103	52		
TA A-1L	400.0	20.3	74	37		
TA A-2L	440.0	21.1	77	38		
TA A-3L	600.0	16.8	61	30		
TA A-4L	1,000.0	48.8	177	89		
TA A-5L	1,100.0	50.6	184	92		
TA A-6L	1,600.0	33.7	122	61		
TA A-7L	1,240.0	40.1	146	73		
TA A-8L	600.0	40.7	148	74		
TA A-9L	3,200.0	105.2	382	191		
TA A-9L-1R	1,160.0	35.9	130	65		
TA A-10L	665.0	20.7	76	38	1	
TA A-6R	333.0	8.6	31	16	3	
TA A-11L	649.4	25.0	91	46	3	
TA A-7R	348.5	9.4	34	17	2	
TA A-8R	316.8	14.3	52	26	1	
TA A-12L	649.4	24.2	88	44	2	

Table II-2 (2/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(2/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA A-9R	506.0	5.8	21	11	1	
TA A-13L	1,118.0	18.7	68	34	4	
TA A-10R	221.0	6.3	23	12	1	
TA A1	1,400.0					
TA A1-1L	200.0	10.9	40	20		
TA A1-2L	640.0	35.6	129	65		
TA A1-3L	400.0	12.2	44	22		
TA A1-4L	2,000.0	41.9	152	76		
TA A1-1R	300.0	19.0	69	34		
TA A2	253.4					
TA A2-1L	1,145.0	12.3	157	79	4	
TA A2-1L-1L	340.0	13.2	48	24	0	
TA A2-2L	620.0	42.2	45	23	2	
TA A3	3,389.8					
TA A3-1L	950.4	23.0	84	42	5	
TA A3-1L-1R	320.0	5.2	19	10	0	
TA A3-1R	1,045.4	50.5	184	92	2	
TA A3-2R	428.0	17.2	63	32	1	
TA A3-2L	2,210.0	57.5	210	105	4	
TA A3-2L-1R	253.4	11.2	41	21	0	
TA A3-2L-2R	855.0	30.7	112	56	0	

Table II-2 (3/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(3/12)

Sungai Muda Sub-Scheme								
NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks		
TA A3-3R	222.0	10.6	39	20	2			
TA A3-3L	760.3	32.0	117	59	0			
TA A3-4R	206.0	9.5	35	18	1			
TA A3-4L	1,029.6	22.0	80	40	0			
TA A3-5R	2,185.9	49.0	162	81	4			
TA A3-5R-1R	411.8	12.9	47	24	0			
TA A3-5L	1,616.0	29.8	109	55	3			
TA A3-5L-1R	380.2	7.8	29	15	0			
TA A3-6R	1,885.0	49.0	179	90	9			
TA A3-6R-1R	870.2	14.7	54	27	1			
TA A3-6R-1L	950.4	17.0	62	31	1			
TA A3-6R-1L-1R	175.0	9.0	33	17	0			
TA BARAT UTARA	1,029.6	34.5	126	63	4			
TA BARAT SELATAN	1,710.0	39.8	145	73	1			
TA A3-6L	1,948.0	49.8	182	91	4			
TA A3-7R	443.0	6.4	23	12	1			
Block M2								
TA 1E	221.8	8.2	37	19	1			
TA 1D	633.6	12.7	37	19	1			
TA 1C	728.6	10.5	34	17	2			
TA B	1,647.4				7			
TA B-1L	1,300.0	24.5	134	67	2			
TA B-R	600.0	15.4	57	29	1			
TA B-2L	1,140.0	22.4	122	61	2			

Table II-2 (4/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(4/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA B-1R	640.0	15.9	156	78	2	
TA B-3L	585.0	30.2	163	82	3	
TA B-2R	900.0	32.1	175	88	2	
TA B-4L	490.0	14.8	81	41	1	
TA B-3R	805.0	38.5	210	105	2	
TA B-5L	500.0	11.3	63	32	1	
TA B-4R	580.0	15.6	57	29	2	
TA B1	1,710.7				6	
TA B1-1L	665.0	12.3	68	34	2	
TA B1-2L	535.0	25.4	137	69	2	
TA B1-1R	540.0	23.5	129	65	1	
TA B1-2R	600.0	23.6	129	65	2	
TA B1-3L	560.0	25.9	141	71	2	
TA B1-4L	740.0	16.4	90	45	2	
TA B1-3R	625.0	30.3	165	83	1	
TA B1-5L	775.0	26.0	137	69	2	
TA B1-4R	330.0	7.6	41	21	1	
TA B1-6L	845.0	15.0	82	41	2	
TA B2	5,702.4				10	
TA B2-1R	400.0	20.0	109	55	1	
TA B2-2R	760.0	24.1	137	69	2	
TA B2-3R	1,090.0	43.2	235	118	2	
TA B2-4R	1,260.0	48.2	275	138	2	

Table II-2 (5/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(5/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA B2-5R	1,250.0	74.0	448	224	3	
TA B2-1L	385.0	12.0	66	33	2	
TA B2-6R	740.0	32.2	177	89	1	
TA B2-2L	540.0	23.4	127	64	1	
<i>Block M3</i>						
TA CA	2,235.0				7	
TA CA-1R	450.0	23.3	85	43	1	
TA CA-1L	540.0	25.5	98	49	2	
TA CA-2R	600.0	23.3	85	43	2	
TA CA-2L	565.0	28.5	104	52	1	
TA CA-3R	812.0	34.4	122	61	2	
TA CA-3L	610.0	32.1	117	59	2	
TA CA-4R	660.0	28.9	98	49	3	
TA CA-4L	380.0	24.7	90	45	1	
TA CA-5R	720.0	31.6	161	81	2	
TA CA-5L	300.0	17.0	62	31	1	
TA CA-6R	840.0	17.2	79	40	3	
TA CA-6L	240.0	4.9	21	11	1	
TA C	2,880.0				0	
TA C-1L	480.0	13.3	43	22	1	
TA C-2L	620.0	27.4	103	52	2	

Table II-2 (6/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(6/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA C-3L	900.0	43.8	160	80	2	
TA C-4L	1,170.0	52.6	192	96	4	
TA C-5L	1,330.0	54.7	207	104	5	
TA C-6L	1,110.0	31.2	114	57	5	
TA C-7L	980.0	18.0	66	33	2	
TA C1	1,900.0				0	
TA C1-1R	315.0	6.3	23	12	1	
TA C1-2R	420.0	19.7	72	36	1	
TA C1-3R	630.0	30.4	111	56	2	
TA C1-4R	1,370.0	61.7	225	113	4	
TA C1-1L	175.0	2.5	68	34	2	
TA C1-5R	1,560.0	35.6	133	67	4	
TA C1-6R	350.0	17.5	64	32	1	
TA C1-7R	660.0	19.0	80	40	2	
TA C2	600.0				1	
TA C2-1R	745.0	24.9	89	45	1	
TA C2-2R	1,070.0	44.1	161	81	2	
TA C2-3R	1,330.0	53.7	196	98	2	
TA C2-4R	1,010.0	21.6	79	40	2	
TA C3	2,600.0				4	
TA C3-1R	1,050.0	39.7	145	73	2	

Table II-2 (7/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(7/12)

Sungai Muda Sub-Scheme						
NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA C3-2R	950.0	15.3	56	28	2	
TA C3-3R	515.0	32.9	33	16	1	
TA C3-4R	2,905.0	74.9	273	137	5	
TA C3-1L	365.0	18.1	66	33	1	
TA C3-5R	1,110.0	23.8	87	44	3	
TA C3-6R	760.0		434	217	7	
TA C3-6R-1R	450.0	23.0	84	42	0	
TA C3-6R-2R	1,155.0	47.7	174	87	1	
TA C3-6R-1L	1,015.0	36.2	132	66	0	
TA C3-7R	620.0	26.9	98	49	1	
TA C3-8R	1,200.0	38.6	141	71	2	
TA C4	1,900.8				0	
TA C4-1L	1,665.0	49.0	179	90	4	
TA C4-2L	965.0	20.0	73	37	3	
Block M4						
TA D	2,407.7				0	
TA D-1L	2,059.2	23.8			0	
TA D-2L	887.0	42.6			0	
TA D-3L	966.2	19.1			0	
TA D-4L	918.7	18.2			0	
TA D-5L	792.0	33.9			0	
TA E	1,298.9				12	
TA E-1L	664.0	13.7	50	25	1	

Table II-2 (8/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(8/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA E-1R	688.0	23.3	23	12	1	
TA E-2L	850.0	37.8	38	19	1	
TA E-2R	570.4	31.4	115	58	1	
TA E-3L	495.0	28.4	104	52	1	
TA E-3R	405.0	17.2	63	32	1	
TA E-4L	431.0	16.7	61	31	1	
Block M5						
TA E					0	
TA E-1L	305.0	9.2	34	17	1	
TA E-2L	515.0	10.3	38	19	1	
TA E-3L	905.0	37.6	137	69	2	
TA E-4L	1,025.0	39.1	143	72	2	
TA E-5L	1,200.0	31.6	116	58	2	
TA F	3,865.0				0	
TA F-1R	290.0	8.5	31	16	1	
TA F-2R	380.0	15.2	56	28	1	
TA F-3R	850.0	28.8			1	
TA F-4R	885.0	33.7	123	62	2	
TA F-5R	790.0	36.1	132	66	2	
TA F-6R	1,205.0	52.5	192	96	2	
TA F-7R	1,605.0	58.8	215	108	3	
TA F-8R	1,335.0	44.7			3	

Table II-2 (9/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(9/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA F2	1,805.8				5	
TA F2-1L	1,425.6	28.4	104	52	3	
TA F2-1R	586.0	8.4	31	16	2	
TA F2-2L	570.2	40.5	148	74	4	
TA F2-3L	1,298.8	44.1	161	81	4	
TA F2-4L	1,045.0	40.4	148	74	4	
TA F2-5L	586.0	19.0	40	20	1	
TA F3	2,880.0				3	
TA F3-1L	586.0	19.4	71	36	3	
TA F3-1R	792.0	60.0	219	110	4	
TA F3-2R	1,504.8	52.4	192	96	4	
TA F3-3R	538.3	28.6	105	53	2	
TA F3-4R	601.9	26.6	98	49	2	
TA F3-5R	1,488.9	33.1	121	61	5	
TA F3-6R	1,090.0	26.9	99	50	3	
TAF3-2L	1,425.0	33.5			2	
TA F					1	
TA F-1L	950.4	16.9	62	31	1	
TA F-2L	665.3	27.5	100	50	1	
TA F-3L	601.9	12.0	44	22	1	
TA F-4L	538.6	14.2	52	26	1	
TA F-5L	1,362.2	45.8	167	84	1	
TA F-6L	918.7	14.7	54	27	2	
TA F-7L	443.5	17.8	65	33	2	

Table II-2 (10/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(10/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA F1	3,389.8				2	
TA F1-1L	665.3	17.3	63	32	1	
TA F1-1R	1,140.5	47.5	173	87	1	
TA F1-2R	855.4	37.4	136	68	1	
TA F1-2L	728.6	11.2	41	20	1	
TA F1-3L	1,837.4	29.6	109	55	1	
TA F1-3R	1,253.8	48.7	178	89	1	
TA F1-4R	1,900.8	43.4	158	79	1	
TA F1A	1,203.8				2	
TA F1A-1L	1,108.8	47.5	174	87	1	
TA F1A-2L	1,710.7	156.2	570	285	3	
TA F1A-3L	1,805.8	77.9	28	14	3	
TA G	6,080.0				7	
TA G-1R	1,275.0	23.7	86	43	2	
TA G-1L	815.0	25.0	91	46	1	
TA G-2R	285.0	6.8	25	13	1	
TA G-3R	425.0	22.3	81	41	1	
TA G-4R	725.0	36.2	132	66	2	
TA G-5R	1,220.0	69.1	252	126	3	
TA G-6R	425.0	12.6	46	23	1	
TA G-7R	955.0	40.8	149	75	1	
TA G-8R	1,130.0	46.8	171	86	2	

Table II-2 (11/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(11/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA G-9R	1,110.0	45.8	62	31	2	
TA G-2L	1,100.0	44.8	164	82	2	
TA G-3L	950.0	41.6	152	76	0	
Block M6						
TA H	4,967.0				18	
TA H-1R	238.2	13.0	47	24	5	
TA H-2R	933.0	42.8	156	78	17	
TA H-3R	421.0	15.5	57	28	0	
TA H-4R	1,347.0	36.9	135	67	0	
TA H-5R	993.3	47.9	175	88	0	
TA H-6R	771.0	29.4	107	54	0	
TA H-7R	1,989.5	20.8	175	109	0	
TA H-2L	190.0	6.0	22	11	3	
TA HI	2,237.0				13	
TA HI-2R	737.0	11.0	40	20	5	
TA HI-3R	241.0	5.2	19	10	3	
TA HI-4R	2,409.0	36.7	67	37	20	
TA HI-5R	2,300.0	42.6	155	78	21	
TA HI-1L	3,030.0	32.7	119	60	21	

Table II-2 (12/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(12/12)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA H2	2,183.0				7	
TA H2-1L	531.0	23.7	87	43	9	
TA H2-2L	591.0	15.6	57	29	6	
TA H2-1R	664.0	16.7	61	30	5	
TA H2-2R	373.0	11.3	41	21	6	
TA H2-3R	155.0	8.4	31	15	4	
TA H2-4R	3,147.0	84.3	308	154	37	
TA H3	2,776.0				11	
TA H3-1R	630.0	24.6	90	45	0	
TA H3-2R	1,785.0	25.0	128	64	0	
TA H3-3R	1,824.0	41.9	153	76	0	
TA H3-4R	1,060.0	45.2	165	83	13	
TA H3-5R	598.0	14.2	52	26	5	
TA H3-1L	1,283.0	35.9	131	66	11	
TA H3-2L	1,760.0	37.9	174	97	17	
TA H3-3L	519.0	18.5	37	19	5	
TA H3-4L	1,909.0	35.4	129	65	12	
TA H3-5L	1,191.4	31.1	180	90	21	

Table II-2 (13/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(1/2)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Q _p (lit/sec)	Q _n (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
PB	8,050.0				9	
TA PB -1L	2,320.0	58.2	213	107	7	
TA PB -1L-1L	270.0	8.0	29	15	1	
TA PB -1L-1R	1,735.0	20.5	75	38	4	
TA PB -2L	405.0	13.7	50	25	1	
TA PB -3L	790.0	38.9	142	71	2	
TA PB -4L	535.0	21.3	78	39	1	
TA PB -5L	1,410.0	40.8	148	74	4	
TA PB -6L	430.0	20.5	75	38	1	
TA PB -7L	275.0	11.4	42	21	1	
TA PB -8L	420.0	22.1	81	41	2	
TA PB -9L	740.0	23.4	86	43	2	
TA PB -10L	1,045.0	39.8	145	73	2	
TA PB -11L	785.0	25.8	94	47	3	
TA PB -12L	965.0	39.5	145	73	1	
TA PB -13L	765.0	12.5	47	24	2	
TA PB -14L	530.0	38.1	139	70	3	
TA PB -14L-1L	600.0	25.3	93	47	1	

Table II-2 (14/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(2/2)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qh (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
PS	5,820.0	575.6			10	
TA PS-1L	1,385.0	43.0	157	79	5	
TA PS-1L-1L	645.0	4.8	18	9	2	
TA PS-1R	695.0	18.9	69	35	2	
TA PS-2L	310.0	144.0	526	263	3	
TA PS-3L	1,115.0	31.8	117	59	2	
TA PS-2R	965.0	30.1	110	55	2	
TA PS-4L	1,175.0	21.1	77	39	2	
TA PS-3R	515.0	25.0	92	46	1	
TA PS-5L	615.0	25.5	93	47	1	
TA PS-4R	815.0	35.0	128	64	2	
TA PS-6L	750.0	31.7	116	58	2	
TA PS-7L	575.0	25.4	93	47	2	
TA PS-8L	465.0	11.2	41	21	2	
TA PS-5R	1,160.0	49.8	182	91	2	
TA PS-6R	985.0	46.4	170	85	6	
TA PS-6R-1R	435.0	15.0	55	28	1	
TA PS-6R-2R	575.0	26.2	96	48	1	
TA PS-7R	330.0	9.9	36	18	1	
TA PS-8R	1,600.0	26.9	98	49	3	
TA PS-8R-1R	420.0	26.9	98	49	0	

Table II-2 (15/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(1/2)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Main Canal	6,700.0					
TA 1	4,625.0				6	
TA 1-2R	1,625.0	41.4	151	76	4	
TA 1-3R	937.5	47.7	174	87	2	
TA 1-4R	1,437.5	63.0	230	115	3	
TA 1-1L	937.5	15.7	57	29	1	
TA 1-5R	875.0	47.7	174	87	3	
TA 1-2L	687.5	26.3	96	48	1	
TA 1-2L-1	250.0	5.2	19	10	1	
TA 1-6R	812.5	34.2	125	63	1	
TA 1-3L	406.3	14.1	51	26	1	
TA 1-7R	93.8	5.5	20	10	1	
TA 1-8R		18.1	66	33	1	
TA 2	3,120.0				1	
TA2-1R	420.0	8.5	32	20	1	
TA2-1L	1,050.0	13.9	45	33	1	
TA2-2R	600.0	26.7	84	64	2	
TA2-2L	1,125.0	42.2	151	101	1	
TA2-3R	720.0	32.1	89	77	3	
TA2-3L	1,087.0	49.4	171	118	1	
TA2-4R	720.0	32.3	98	77	2	
TA2-4L	1,275.0	45.7	126	109	1	
TA2-5R	660.0	37.4	107	89	3	

Table II-2 (16/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(2/2)

Sungai Kulim Sub-Scheme											
NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks					
TA2-6R	780.0	42.9	126	89	3						
TA2-5L	825.0	47.9	154	114	1						
TA2-7R	1,500.0	49.8	137	119	2						
TA2-6L	825.0	46.4	169	109	1						
TA2-8R	1,140.0	49.2	139	118	3						
TA2-7L	1,125.0	67.3	209	161	1						
TA2-9R	1,140.0	51.3	142	122	3						
TA2-10R	1,140.0	56.4	157	135	3						

Table II-2 (17/17) List of Irrigation Canal (IADP Pulau Pinang Scheme)

(1/1)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Main Canal	5,796.0					
Sg. Jarak Secondary Canal	1,289.0	116.0	302	151		
Sg. Jarak Secondary Canal	1,748.0	74.0	192	96		
TC-1	276.0	4.0	10	5		
TC-2	552.0	12.0	31	16		
TC-3	182.0	32.0	83	42		
TC-4	598.0	13.0	34	17		
TC-5	460.0	16.0	42	21		
TC-6	1,656.0	21.0	55	27		
TC-7	1,380.0	15.0	39	20		
TC-8	460.0	8.0	21	10		
TC-9	1,334.0	58.0	151	75		
TC-10	920.0	37.0	96	48		

Table II-3 List of Drain (Pulau Pinang Scheme)

(1/1)			
Name of Drainage Canal	Length (m)	Drinage Area (ha)	Discharge (lit/sec)
UPPER			
Sg. Alor Kedak	1,505	241.3	2,051
Sg. Tok Akil	1,510	418.2	3,555
Sg. Tembus	3,958	481.1	4,089
Sg. Tici Serdang	2,675	456.1	3,877
Sg. Megat Deris	1,399	90.8	772
Sg. lahar Endin	3,334	1,295.0	11,008
PT. C	1,069	533.4	4,534
Sg. Penaga	1,848	500.3	4,253
Sg. Selarong Gojah	4,098	1,033.6	8,786
Sg. Puya	2,819	105.1	893
Sg. Maklum	3,180	478.5	4,067
Sg. To Sani	3,063	-	-
Sg. Alor Merah	1,466	130.6	1,110
Sg. Lokan	3,416	414.5	3,523
Sg. Peng	2,546	223.8	1,902
Sg. Merbau Kudong	3,877	587.7	4,995
Sg. Orang Putch	5,032	429.4	3,650
Sub Total	46,795	7,419.4	
LOWER			
Sg. Jelutong	1,316	-	-
Pt. Jelutong	2,497	140.1	1,191
Pt. Keling	1,765	145.2	1,234
Pt. Tok Along	1,573	168.2	1,430
Sg. Sintok	2,234	451.6	3,839
Non Name	2,500	129.1	1,097
Sg. Derhaka	7,554	914.4	7,772
Sg. kubang semong	926	110.5	939
Sg. Tuar Abdullah	1,907	88.9	756
Sg. Derhaka To Panjang	5,181	120.7	1,026
Sg. Pmta Roton	6,950	494.8	4,206
Sg. Pmtg Rawa	4,723	90.4	768
Sg. Aya	1,635	46.4	394
Sub Total	40,761	2,900.3	
Total	87,556	10,319.7	

Note : The above list presents main and secondary drains

Table II - 4 General Features of Irrigation and Drainage (Kerian Scheme)

Description	Features	Remarks
1. Number and Name of Sub-Scheme	2 sub-schemes - Kerian Laut Sub-Scheme - Kerian Darat Sub-Scheme	
2. Number and Name of Irrigation Block - Kerian Laut Sub-Scheme - Kerian Darat Sub-Scheme	8 Blocks 4 Blocks (Block A, B, C and D) 4 Blocks (Block E, F, G and H)	
3. Net Irrigation Area - Kerian Laut Sub-Scheme Compartment A Compartment B Compartment C Compartment D - Kerian Darat Sub-Scheme Compartment E Compartment F Compartment G Compartment H	23,560 ha 13,726 ha 2,403 ha 4,001 ha 3,960 ha 3,362 ha 9,834 ha 2,344 ha 2,697 ha 2,143 ha 2,650 ha	
4. Water Source - Kerian Laut Sub-Scheme - Kerian Darat Sub-Scheme	Bukit Merah Reservoir and Kerian River Bukit Merah Reservoir	
5. Intake Method - Kerian Laut Sub-Scheme - Kerian Darat Sub-Scheme	Gravity (Bukit Merah Reservoir) + pump (Bogak P/S) Bukit Merah Reservoir Storage capacity : 56 million m ³ Catchment area : 480 km ² Reservoir area : 34 km ² Intake gate : 1.83 m x 2.13 m x 6 nos. Bogak Pumping Station Electrical pump 5.1 m ³ /sec/each ,4 nos. Gravity (Bukit Merah Reservoir)	Huge weed in the reservoir
6. Designed Intake Discharge - Bukit Merah Reservoir - Bogak Pump Station	35.3 m ³ /sec 5.1 m ³ /sec/each x 4 nos.	
7. Unit Field Water Requirement	2.3 lit/sec/ha at peak	
8. Irrigation Facilities Main canal Secondary canals Tertiary canals Related Structures	62.7 km 343.0 km 320.1 km 2,524 nos.	lined with concrete
9. Drainage Facilities Main & Secondary drains Tertiary drain	570 km 473 km 700 km	
10. Farm Road	700 km	

Table II-5 (1/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qp (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Main Canal						
Terusan Besar	27,535.0					
Terusan Alor Pongsu	5,697.0					
Terusan Tg. Piandang	9,495.0					
Terusan Serong	6,646.0					
Terusan Serinsing	13,293.0					
Compartment H						
TA 37	4,145.3	286.1	667	333	7	
TA 37-L1	383.1	7.9	18	9	2	Concrete Lining
TA 71	3,352.8	241.0	562	281	9	
TA 71-L1	172.5	7.9	18	9	1	Concrete Lining
TA 71-R1	243.8	2.2	5	3	0	Concrete Lining
TA 109	3,703.3	231.3	539	269	13	
TA 109-R1	445.9	11.7	27	14	2	Concrete Lining
TA 109-L1	544.7	17.6	41	21	3	Concrete Lining
TA 109-L2	262.1	10.6	25	12	1	Concrete Lining
TA 109-R2	518.2	15.2	35	18	2	Concrete Lining
TA 109-L3	518.2	36.2	84	42	2	Concrete Lining
TA 109-L3-R1	280.4	8.0	19	9	1	Concrete Lining
TA 109-R3	284.7	8.5	20	10	1	Concrete Lining
TA 109-R4	198.1	2.1	5	2	1	Concrete Lining
TA 161	2,865.1	274.4	639	320	16	
TA 161-R1	351.7	22.3	52	26	2	Concrete Lining
TA 161-L1	502.3	24.0	56	28	2	Concrete Lining
TA 161-R2	510.5	14.6	34	17	2	Concrete Lining

Table II-5(2/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 161-L2	692.8	23.4	55	27	4	Concrete Lining
TA 161-R3	548.6	8.7	20	10	2	Concrete Lining
TA 161-R4	275.8	4.3	10	5	1	Concrete Lining
TA 161-L3	487.7	5.1	12	6	2	Concrete Lining
TA 161-R5	249.3	8.9	21	10	1	Concrete Lining
TA 161B	1,341.1	76.2	177	89	3	
TA 161B-R1	244.8	9.7	23	11	0	Concrete Lining
TA 161-R6	830.3	18.6	43	22	4	Concrete Lining
TA 195	3,109.0	189.7	442	221	11	
TA 195-R1	232.6	10.3	24	12	1	Concrete Lining
TA 195-L1	331.3	9.0	21	10	1	Concrete Lining
TA 195-L2	383.7	12.1	28	14	1	Concrete Lining
TA 195-L3	320.3	11.2	26	13	1	Concrete Lining
TA 195-R2	340.5	13.4	31	16	2	Concrete Lining
TA 195-R3	548.6	14.8	35	17	2	Concrete Lining
TA 236	3,444.2	220.8	515	257	20	
TA 236-L1	325.5	5.8	14	7	1	Concrete Lining
TA 236-R1	136.6	10.3	24	12	1	Concrete Lining
TA 236-L2	232.6	8.1	19	9	1	Concrete Lining
TA 236-L3	286.5	7.3	17	8	2	Concrete Lining
TA 236-R2	413.9	15.9	37	19	2	Concrete Lining
TA 236-L4	182.3	7.9	18	9	1	Concrete Lining
TA 236-R3	974.4	27.1	63	32	5	Concrete Lining
TA 236-R4	821.1	17.9	42	21	3	Concrete Lining
TA 236-R5	610.8	20.0	47	23	3	Concrete Lining
TA 236-L5	470.9	9.1	21	11	2	Concrete Lining
TA 236-R6	292.6	4.4	10	5	2	Concrete Lining

Table II-5 (3/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 275	3,596.6	204.4	476	238	18	
TA 275-R1	334.1	11.9	28	14	1	Concrete Lining
TA 275-L1	342.6	12.0	28	14	1	Concrete Lining
TA 275-R2	637.9	17.5	41	20	2	Concrete Lining
TA 275-L2	176.5	14.9	35	17	1	Concrete Lining
TA 275-R3	277.4	10.4	24	12	1	Concrete Lining
TA 275-L3	332.8	12.3	29	14	1	Concrete Lining
TA 275-R4	266.7	9.0	21	10	1	Concrete Lining
TA 275-L4	395.0	11.1	26	13	1	Concrete Lining
TA 275-L5	294.1	12.1	28	14	1	Concrete Lining
TA 275-R5	165.5	6.3	15	7	1	Concrete Lining
TA 275-L6	350.8	11.4	27	13	2	Concrete Lining
TA 315	5,120.6	449.2	1,047	523	22	
TA 315-R1	441.7	18.7	44	22	2	Concrete Lining
TA 315-R2	475.8	18.5	43	22	2	Concrete Lining
TA 315-L1	501.1	10.7	25	12	2	Concrete Lining
TA 315-R3	490.4	12.9	30	15	2	Concrete Lining
TA 315A	1,981.2	66.0	154	77	1	
TA 315-R4	545.0	11.9	28	14	2	Concrete Lining
TA 315-R5	649.5	14.0	33	16	3	Concrete Lining
TA 315-L2	403.9	11.8	27	14	2	Concrete Lining
TA 315-R6	351.7	9.2	22	11	2	Concrete Lining
TA 315-L3	1,129.6	84.9	198	99	6	Concrete Lining
TA 315-L3-L1	707.1	26.2	61	31	3	Concrete Lining
TA 315-R7	445.0	6.3	15	7	2	Concrete Lining
TA 315-R8	1,560.6	20.3	47	24	4	Concrete Lining
TA 315-L4	695.2	23.8	55	28	2	Concrete Lining
TA 315-L5	375.8	11.4	27	13	0	Concrete Lining

Table II-5 (4/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 374A	1,624.6	109.6	255	128	6	
TA 374A-R1	381.9	9.5	22	11	2	Concrete Lining
TA 374A-L1	725.4	33.2	77	39	3	Concrete Lining
TA 374A-L2	396.2	16.4	38	19	0	Concrete Lining
TA 403	1,645.9	75.5	176	88	5	
TA 403-L1	389.8	35.0	82	41	2	Concrete Lining
TA 403-L2	496.2	13.5	31	16	3	Concrete Lining
TA 444	990.6	44.6	104	52	3	
TA 444-L1	384.4	9.4	22	11	2	Concrete Lining
TA 375	4,450.1	331.7	773	386	7	
TA 463A	1,179.6	200.9	468	234	3	Concrete Lining
TA 463A-R1	314.6	14.8	35	17	2	Concrete Lining
TA 463A-R2	335.3	20.3	47	24	1	Concrete Lining
TA 463	2,834.6	144.9	338	169	3	

Table II-5 (5/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/Sec)	Qn (lit/Sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Compartment G						
TA 474	5,730.2	272.0	634	317	18	
TA KI 474-1	393.2	9.7	23	11	2	Concrete Lining
TA KI 474-2	329.2	10.8	25	13	2	Concrete Lining
TA KI 474-3	335.3	25.3	59	29	2	Concrete Lining
TA KI 474-4	0.0	0.0	0	0	1	Concrete Lining
TA KI 474-5	390.1	31.6	74	37	3	Concrete Lining
TA KI 474-6	323.1	25.5	59	30	2	Concrete Lining
TA S15KN	1,828.8	99.3	231	116	8	
TA S15KN-L1	408.4	10.0	23	12	2	Concrete Lining
TA S15KN-R2	201.2	18.6	43	22	1	Concrete Lining
TA S15KN-L2	170.7	12.4	29	14	1	Concrete Lining
TA S15KN-R3	597.4	18.5	43	22	3	Concrete Lining
TA S39KN	4,456.2	373.7	871	435	20	
TA S39KN-L2	317.0	16.5	38	19	2	Concrete Lining
TA S39KN-R1	146.3	11.4	27	13	1	Concrete Lining
TA S39KN-R2	859.5	34.6	81	40	5	Concrete Lining
TA S39KN-R3	518.2	43.5	101	51	2	Concrete Lining
TA S39KN-R3-L1	402.3	11.4	27	13	2	Concrete Lining
TA S39KN-L4	990.6	46.3	108	54	1	Concrete Lining
TA S39KN-R4	688.8	42.0	98	49	3	Concrete Lining
TA S39KN-L5	1,231.4	44.6	104	52	5	Concrete Lining
TA S39KN-L6	481.6	51.6	120	60	3	Concrete Lining
TA S39KN-L6-R1	506.0	5.1	12	6	1	Concrete Lining
TA S39KN-L6-L1	762.0	26.1	61	30	1	Concrete Lining
TA S64KN1	3,749.0	605.8	1,412	706	17	
TA S64KN1-R1	585.2	19.8	46	23	3	Concrete Lining
TA S64KN1-R2	451.1	18.7	44	22	2	Concrete Lining

Table II-5 (6/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 564KN1-L1	554.7	38.0	89	44	3	Concrete Lining
TA 564KN1-L1A	243.8	7.9	18	9	2	Concrete Lining
TA 564KN1-R3A	457.2	48.1	112	56	3	Concrete Lining
TA 564KN1-R3B	1,066.8	24.9	58	29	5	Concrete Lining
TA 564KN1-R4	701.0	17.1	40	20	3	Concrete Lining
TA 564KN1-R5	966.2	19.7	46	23	4	Concrete Lining
TA 564KN1-L3	859.5	19.4	45	23	3	Concrete Lining
TA 564KN2	2,569.5	143.1	333	167	7	
TA 564KN2-R1	243.8	28.8	67	34	2	Concrete Lining
TA 564KN2-R1A	268.2	0.0		0	1	Concrete Lining
TA 564KN2-R1B	262.1	0.0		0	1	Concrete Lining
TA 564KN2-L1	304.8	11.1	26	13	1	Concrete Lining
TA 564KN2-R2A	1,079.0	27.4	64	32	3	Concrete Lining
TA 564KN3	2,542.0	28.3	558	279	12	
TA 564KN3-L1	426.7	3.0	58	29	2	Concrete Lining
TA 564KN3-L1A	195.1	0.0		0	1	Concrete Lining
TA 564KN3-R1	304.8	1.7	34	17	1	Concrete Lining
TA 564KN3-L2B	560.8	1.8	35	17	2	Concrete Lining
TA 564KN3-R1A	1,085.1	2.4	47	23	4	Concrete Lining
TA 564KN4	993.6	5.6	111	55	2	Concrete Lining
TA 564KN4-L3	426.7	0.3	6	3	1	Concrete Lining
TA 564KN4-R2	579.1	1.0	20	10	3	Concrete Lining
TA 1B	1,894.9	103.1	240	120	6	
TA 1B-KN1	408.4	2.4	46	23	2	Concrete Lining
TA 1B-KN2	402.3	2.2	44	22	2	Concrete Lining
TA 1B-KN3	371.9	1.8	35	17	1	Concrete Lining

Table II-5 (7/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 539 KIRI	3,109.0	203.9	475	238	13	
TA 539 KIRI-A	426.7	1.7	34	17	2	Concrete Lining
TA 539 KIRI-E	463.3	1.8	35	18	2	Concrete Lining
TA 539 KIRI-B	438.9	2.9	58	29	3	Concrete Lining
TA 539 KIRI-FI	249.9	0.0		0	1	Concrete Lining
TA 539 KIRI-10A	725.4	5.2	102	51	2	Concrete Lining
TA 539 KI-G2	530.4	1.9	38	19	1	Concrete Lining
TA 539 KI-C	438.9	2.7	54	27	2	Concrete Lining
TA 539 KI-H	432.8	1.1	23	11	2	Concrete Lining
TA 564 KIRI	2,987.0	146.9	342	171	8	
TA 564 KIRI-10B	823.0	4.2	82	41	1	Concrete Lining
TA 564 KIRI-10C	518.2	2.9	56	28	1	Concrete Lining
TA 564 KIC	365.8	1.2	24	12	1	Concrete Lining

Table II-5 (8/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
<i>Compartment F</i>						
Ali Kalang 2	4,328.2	461.8	1,076	538	10	
Ali Kalang 2-R1	342.9	9.2	22	11	2	Concrete Lining
Ali Kalang 1	777.2	101.3	236	118	4	Concrete Lining
Ali Kalang 1-R2	387.1	6.0	14	7	2	Concrete Lining
Ali Kalang 1-R1	880.9	22.1	52	26	7	Concrete Lining
Mat Kling1	1,621.5	161.3	376	188	6	
Mat Kling1- 2L	1,140.0	57.5	134	67	1	Concrete Lining
Mat Kling1- 2R	975.4	50.9	119	59	1	Concrete Lining
Mat Kling1- L1	783.3	19.2	45	22	4	Concrete Lining
Mat Kling1- R1	438.9	9.8	23	11	3	Concrete Lining
Hj. Aman 2	3,992.9	448.0	1,044	522	13	
Hj. Aman 2-R1	390.1	15.8	37	18	1	Concrete Lining
Hj. Aman 2-L1	402.3	16.2	38	19	1	Concrete Lining
Hj. Aman 1	1,744.1	126.3	294	147	7	
Hj. Aman 1-R1	384.0	10.4	24	12	1	Concrete Lining
Hj. Aman 1-L1	390.1	15.8	37	18	1	Concrete Lining
TA Panchor 2	3,596.6	628.1	1,463	732	7	
TA Panchor 2-L1	362.7	10.1	23	12	2	Concrete Lining
TA Panchor 2-R1	350.5	10.2	24	12	2	Concrete Lining
TA Panchor 1	2,987.0	391.3	912	456	7	
TA Panchor 1-L1	350.5	11.2	26	13	2	Concrete Lining
TA Panchor 1-R1	341.4	10.4	24	12	2	Concrete Lining

Table II-5 (9/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Q _p (lit/sec)	Q _n (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA TK PERIBU 1	2,499.4	203.7	475	237	7	
TA TK PERIBU 1-L1	789.4	20.9	49	24	3	Concrete Lining
TA TK PERIBU 1-R1	597.4	22.3	52	26	3	Concrete Lining
TA TK PERIBU 2	1,645.9	79.7	186	93	3	
TA TK PERIBU 2-R1	307.8	8.3	19	10	1	Concrete Lining
TA Hj. Ali 1	2,758.4	389.3	907	453	8	
TA Hj. Ali 1-R1	350.5	6.8	16	8	1	Concrete Lining
TA Hj. Ali 1-L1	347.5	11.8	27	14	2	Concrete Lining
TA Banjar 1	3,764.3	128.5	299	150	7	
TA Banjar 1-R1	274.3	6.1	14	7	1	Concrete Lining
TA Banjar 1-L1	262.1	8.0	19	9	1	Concrete Lining
TA Banjar 2	2,453.6	75.3	175	88	6	
TA Banjar 2-L1	301.8	7.9	18	9	2	Concrete Lining
TA Hj Taib 2	2,194.6	265.4	618	309	5	
TA Hj Taib 2-L1	353.6	11.9	28	14	2	Concrete Lining
TA Hj Taib 2-R1	341.4	13.7	32	16	2	Concrete Lining
TA Hj Taib 1	1,371.6	152.7	356	178	6	
TA Hj Taib 1-L2	362.7	10.2	24	12	1	Concrete Lining
TA Hj Taib 1-R1	349.0	11.7	27	14	2	Concrete Lining
TA Hj Taib 1-L1	996.7	16.0	37	19	2	Concrete Lining
TA Mentara 2	1,688.6	219.1	511	255	5	
TA Mentara 2-R1	347.5	11.8	27	14	2	Concrete Lining
TA Mentara 2-L1	347.5	13.5	31	16	2	Concrete Lining

Table II-5 (10/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA Mentara 1	1,264.9	112.3	262	131	7	
TA Mentara 1-R2	350.5	13.8	32	16	2	Concrete Lining
TA Mentara 1-L2	362.7	12.6	29	15	2	Concrete Lining
TA Mentara 1-L1	336.2	8.4	20	10	1	Concrete Lining
TA Mentara 1-R1	292.6	15.2	35	18	2	Concrete Lining
TA Ismail 2	1,190.9	225.7	526	263	4	
TA Ismail 2-R1	350.5	12.3	29	14	2	Concrete Lining
TA Ismail 2-L1	388.6	11.8	27	14	2	Concrete Lining
TA Ismail 1	1,112.5	152.7	356	178	7	
TA Ismail 1-L2	362.7	12.8	30	15	2	Concrete Lining
TA Ismail 1-R3	755.9	21.1	49	25	3	Concrete Lining
TA Ismail 1-R2	1,511.8	50.6	118	59	4	Concrete Lining
TA Ismail 1-R1	326.1	6.3	15	7	1	Concrete Lining
TA Ismail 1-L1	393.2	10.4	24	12	2	Concrete Lining

Table II-5 (11/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Compartment E						
TA SG.BOGA-A	2,164.1	208.4	486	243	7	
TA SG.BOGA	2,386.6	104.8	244	188	3	
TA SG.BOGA-A-L1	698.0	42.6	99	188	3	Concrete Lining
TA Hitam 3	509.0	56.9	133	66	3	
TA Hitam 3-R1	0.0	44.2	103	188	2	Concrete Lining
TA Hitam 2	1,539.2	42.8	100	50	3	
TA Hitam 1	2,014.7	105.4	246	123	3	
TA-R1	588.3	77.7	181	90	3	
TA-R1-L1	0.0	29.4	68	188	3	Concrete Lining
TA HJ Ali 2	2,987.0	169.4	395	197	4	
TA HJ Taib 3	4,383.0	272.2	634	317	5	
TA-2	2,289.0	162.2	378	189	6	
TA-2-R1	350.5	14.3	33	17	2	Concrete Lining
TA-2-L1	434.6	22.8	53	27	2	Concrete Lining
TA AP3 / Matang Merbau	6,013.1	466.4	1,087	543	17	
TA AP 3A	2,691.4	143.9	335	188	8	
TA AP 3A-L1	336.8	14.2	33	188	1	Concrete Lining
TA AP 3A-R1	367.6	12.4	29	188	1	Concrete Lining
TA AP 3A-L2	366.4	13.0	30	188	1	Concrete Lining
TA AP 3A-R2	372.5	13.0	30	188	1	Concrete Lining

Table II-5 (12/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA AP 3B	1,932.4	57.5	134	67	4	
TA AP 3B-L1	179.8	14.5	34	17	2	Concrete Lining
TA AP 3B-R1	234.7	9.7	23	11	1	Concrete Lining
TA AP 3-R1	1,197.9	30.9	72	36	2	Concrete Lining
TA Matang Jelutong	1,853.2	66.1	154	77	2	Concrete Lining
TA MATANG MERBAU -R1	502.9	12.9	30	15	1	Concrete Lining
TA MATANG MERBAU -R2	342.9	13.1	31	15	1	Concrete Lining
TA-L1	279.2	9.2	22	11	2	
TA-4	1,777.0	97.3	227	113	6	
TA-4-R1	367.0	13.5	31	16	0	Concrete Lining
TA-4-L1	345.9	12.3	29	14	1	Concrete Lining
TA-5	643.1	41.1	96	48	2	
TA-R2	1,535.9	103.3	241	120	6	
TA-R2-L1	563.9	14.0	33	16	2	Concrete Lining
TA-R3	1,173.5	46.9	109	55	3	
TA-1	1,417.3	57.6	134	67	6	
TA-1-L1	490.7	18.2	42	21	1	Concrete Lining
TA Bahru	1,795.3	273.6	638	319	8	
TA Ismail 3	1,588.0	64.9	151	76	2	Concrete Lining
TA J	3,258.3	173.7	405	202	4	Concrete Lining
TA Bahru-R1	539.5	14.8	35	17	2	Concrete Lining
TA Mentra 3	3,837.7	232.7	542	271	5	Concrete Lining

Table II-5 (13/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Q _p (lit/sec)	Q _n (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
<i>Compartment D</i>					0	
TA 804KN-A	685.8	40.7	95	47	3	
TA 804KN-B	304.8	15.9	37	19	1	Concrete Lining
TA 804KI	841.2	107.8	251	126	4	
TA 804KI-R1	568.5	23.0	53	27	3	Concrete Lining
TA 804KI-L1	882.4	40.9	95	48	7	Concrete Lining
TA 804KN	2,255.5	76.6	178	89	5	
TA 910A	548.6	31.2	73	36	3	
TA 910A-L1	196.6	3.3	8	4	1	Concrete Lining
TA 963	2,950.5	231.6	540	270	12	
TA 963-R2	527.3	7.3	17	8	2	Concrete Lining
TA 963-R2A	396.2	9.4	22	11	2	Concrete Lining
TA 963-L4	811.1	26.1	61	30	4	Concrete Lining
TA 963-L3	546.2	27.9	65	33	4	Concrete Lining
TA 963-L2	235.3	5.1	12	6	1	Concrete Lining
TA 963-R1	290.2	11.3	26	13	2	Concrete Lining
TA 963-L1	256.6	11.7	27	14	2	Concrete Lining
TA 910	2,234.2	128.8	300	150	9	
TA 910-R3	902.8	34.6	81	40	6	Concrete Lining
TA 910-L2	432.8	9.0	21	10	2	Concrete Lining
TA 910-L1	329.2	12.0	28	14	2	Concrete Lining
TA 910-R2	202.4	3.5	8	4	2	Concrete Lining
TA 910-R1	209.7	12.1	28	14	2	Concrete Lining
TA 915 SG BOGKA	1,268.0	42.7	99	50	2	

Table II-5 (14/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA Hj Hussin 1004	3,060.2	156.3	364	182	12	
TA Hj Hussin 1004-R1	393.2	13.0	30	15	1	Concrete Lining
TA Hj Hussin 1004-L1	137.2	4.9	11	6	1	Concrete Lining
TA Hj Hussin 1004-R2	396.2	13.0	30	15	1	Concrete Lining
TA Hj Hussin 1004-L2	201.2	6.6	15	8	1	Concrete Lining
TA 1088 KN-B	1,597.2	186.4	434	217	7	
TA 1088 KN-B-R2	762.9	15.9	37	19	4	Concrete Lining
TA 1088 KN-B-L2	225.6	7.5	18	9	2	Concrete Lining
TA 1088 KN-A	1,478.3	75.5	176	88	4	
TA 1088 KN-A-R1	176.8	1.8	4	2	1	Concrete Lining
TA 1088 KN-D	2,148.8	139.9	326	163	12	
TA 1088 KN-D-R1	1,399.3	37.9	88	44	7	Concrete Lining
TA 1088 KN-D-L1	351.4	5.5	13	6	2	Concrete Lining
TA 1088 KN-D-R2	345.3	5.7	13	7	2	Concrete Lining
TA 1088 KN-D-L2	277.4	6.6	15	8	2	Concrete Lining
TA Hj Jawa 1028KI	3,078.5	235.6	549	275	11	
TA Hj Jawa 1028K(I-R)	365.8	11.3	26	13	1	Concrete Lining
TA Hj Jawa 1028K(I-L)	365.8	12.5	29	15	1	Concrete Lining
TA SG DG 1088 KIRI	3,566.2	275.3	641	321	12	
TA SG DG 1088 KIRI-L	365.8	10.9	25	13	1	Concrete Lining
TA SG DG 1088 KIRI-R1	353.6	10.1	23	12	1	Concrete Lining
TA 1128 KN		88.4	206.0	103	4	
TA 1128 KN-A		14.9	34.8	17	1	Concrete Lining
TA 1128 KN-B		39.8	92.8	46	1	Concrete Lining
TA 1128 KN-B-R1		11.4	26.6	13	5	Concrete Lining

Table II-5 (15/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA HJ AMIN 1128KI	3,931.9	368.2	858	429	13	
TA HJ AMIN 1128KI-R1	353.6	12.5	29	15	1	Concrete Lining
TA HJ AMIN 1128KI-L1	365.8	11.3	26	13	1	Concrete Lining
TA KOLAM 1167AB	2,194.6	1,202.9	2,803	1,401	7	
TA KOLAM 1167BC	643.1	325.3	758	379	14	Concrete Lining
TA KOLAM 1167BC-L4	286.2	10.4	24	12	2	Concrete Lining
TA KOLAM 1167BC-R3	368.8	9.4	22	11	2	Concrete Lining
TA KOLAM 1167BC-L3	499.9	17.7	41	21	3	Concrete Lining
TA KOLAM 1167BC-R2	285.0	12.9	30	15	2	Concrete Lining
TA KOLAM 1167BC-L2	1,033.6	42.3	98	49	6	Concrete Lining
TA KOLAM 1167BC-L1	672.7	37.3	87	43	3	Concrete Lining
TA KOLAM 1167BC-R1	219.5	14.2	33	17	2	Concrete Lining
TA MAT SAMAN	1,097.3	75.4	176	88	5	
TA MAT SAMAN-L1	285.9	19.2	45	22	2	Concrete Lining
TA MAT SAMAN-R1	349.9	19.2	45	22	2	Concrete Lining
TA JALAN BARU R1	972.3	45.9	107	53	6	Concrete Lining
TA HJ Ali	5,020.1	485.6	1,131	566	14	
TA HJ Ali-L1	343.5	13.7	32	16	2	Concrete Lining
TA HJ Ali-R4	356.6	12.0	28	14	2	Concrete Lining
TA HJ Napis A	1,005.8	43.8	102	51	1	Concrete Lining
TA HJ Ali 2	743.7	28.5	67	33	1	Concrete Lining
TA HJ Ali-R2	497.1	18.8	44	22	3	Concrete Lining
TA HJ Ali-R1	456.9	14.1	33	16	2	Concrete Lining
TA SALURAN 2	1,798.3	202.0	471	235	12	
TA SALURAN 2-AB	289.6	21.0	49	24	2	Concrete Lining
TA SALURAN 2-KL	426.7	6.4	15	7	2	Concrete Lining
TA SALURAN 2-CD	1,127.8	29.2	68	34	5	Concrete Lining

Table II-5 (16/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA SALURAN 2-BF	274.3	3.3	8	4	1	Concrete Lining
TA SALURAN 2-BG	1,188.7	47.1	110	55	5	Concrete Lining
TA SALURAN 2-HI	274.3	26.7	62	31	2	Concrete Lining
TA SALURAN 2-HJ	819.9	45.3	106	53	5	Concrete Lining
TA 1167HJ NAPIS	4,053.8	289.0	673	337	8	
TA 1167 HJ NAPIS -LJ	334.7	12.9	30	15	2	Concrete Lining
TA 1167 HJ NAPIS-R1	325.5	12.8	30	15	2	Concrete Lining
TA 1176	2,788.9	263.1	613	307	11	
TA 1176-R2	582.8	18.0	42	21	4	Concrete Lining
TA 1176-L1	280.4	13.7	32	16	2	Concrete Lining
TA 1176-R1	861.4	52.8	123	62	6	Concrete Lining
TA 1176-R1-L1	213.4	5.6	13	7	2	Concrete Lining
TA 1176 KN A	2,286.0	77.6	181	90	2	Concrete Lining
TA 1176 KN B	853.4	52.8	123	62	1	Concrete Lining

Table II-5 (17/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	QP (lit/sec)	Q ⁿ (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Compartment C						
TPL2	3,048.0	263.2	613	307	7	
TPL2-R1	1,365.5	64.7	151	75	6	Concrete Lining
TPL2-R1-R1	652.3	12.8	30	15	2	Concrete Lining
TA 74	8,702.0	1,456.6	3,394	1,697	34	
TA 74-L14	868.7	22.5	52	26	3	Concrete Lining
TA 74-R10	408.4	7.2	17	8	0	Concrete Lining
TA 74-L13	719.3	50.2	117	58	4	Concrete Lining
TA 74-R9	746.8	72.0	168	84	2	Concrete Lining
TA 74-R9-R1	158.5	9.4	22	11	1	Concrete Lining
TA 74-R9-L1	259.1	11.3	26	13	1	Concrete Lining
TA 74-L12	719.3	52.1	121	61	4	Concrete Lining
TA 74-R8	1,700.8	81.4	190	95	6	Concrete Lining
TA 74-R8-R1	353.6	9.0	21	10	0	Concrete Lining
TA 74-R7	1,460.6	43.4	101	51	5	Concrete Lining
TA 74-L11	731.5	52.6	123	61	4	Concrete Lining
TA 74-L11-R1	457.2	8.5	20	10	2	Concrete Lining
TA 74-L11-R2	350.5	8.6	20	10	2	Concrete Lining
TA 74-L10	411.5	27.2	63	32	3	Concrete Lining
TA 74-L9	1,008.6	35.7	83	42	4	Concrete Lining
TA 74-L9-L1	320.0	8.3	19	10	2	Concrete Lining
TA 74-R6	737.6	29.8	69	35	3	Concrete Lining
TA 74-R5	1,554.5	86.0	200	100	7	Concrete Lining
TA 74-R5-L1	669.6	22.2	52	26	2	Concrete Lining
TA 74-L8	826.0	25.6	60	30	4	Concrete Lining
TA 74-L7	909.2	16.8	39	20	3	Concrete Lining
TA 74-L6	685.8	22.8	53	27	3	Concrete Lining
TA 74-L5	938.8	30.2	70	35	4	Concrete Lining
TA 74-R4	1,498.4	61.2	143	71	4	Concrete Lining

Table II-5 (18/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 74-R4-L1	382.8	15.7	37	18	1	Concrete Lining
TA 74-L4	1,368.9	55.6	130	65	4	Concrete Lining
TA 74-L3	846.4	19.4	45	23	4	Concrete Lining
TA 74-R3	609.6	49.6	115	58	3	Concrete Lining
TA 74-R2	909.2	49.4	115	58	5	Concrete Lining
TA 74-L2	1,193.0	63.5	148	74	5	Concrete Lining
TA 74-R1	701.0	38.5	90	45	4	Concrete Lining
TA 74-L1	0.0	157.9	368	184	0	Concrete Lining
TA 74-L1-R1	0.0	0.0	0	0	0	Concrete Lining
TA 74-L1-R1-R1	0.0	0.0	0	0	0	Concrete Lining
TA 74-L1-R1-L1	0.0	0.0	0	0	0	Concrete Lining
TA HJ MANAN	1,005.8	128.3	299	149	7	
TA HJ MANAN-R1	1,878.8	96.9	226	113	6	Concrete Lining
TA HJ MANAN-R1-L1	557.8	10.6	25	12	1	Concrete Lining
TA HJ MANAN-R1-L2	694.9	27.6	64	32	2	Concrete Lining
TA HJ MANAN-R1-R1	426.7	16.0	37	19	2	Concrete Lining
TA HJ MANAN-L1	1,228.3	30.2	70	35	4	Concrete Lining
TA 30-AB	1,097.3	58.3	136	68	1	Concrete Lining
TA 30-CD	370.3	77.0	179	90	1	Concrete Lining
TA 30-DE	513.6	0.0	0	0	0	Concrete Lining
TA 30-DF	515.1	0.0	0	0	0	Concrete Lining
TA 30-GH	513.6	0.0	0	0	1	Concrete Lining
TA 178	6,690.4	661.0	1,540	770	27	
TA 178-R8	823.0	44.9	105	52	4	Concrete Lining
TA 178-L7	877.8	49.8	116	58	4	Concrete Lining
TA 178-R6	914.4	40.1	93	47	3	Concrete Lining
TA 178-R7	829.1	23.1	54	27	3	Concrete Lining
TA 178-L5	841.2	28.7	67	33	4	Concrete Lining

Table II-5 (19/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 178-L6	816.9	29.4	68	34	3	Concrete Lining
TA 178-L4	1,828.8	58.3	136	68	6	Concrete Lining
TA 178-R4	792.5	34.3	80	40	3	Concrete Lining
TA 178-R5	810.8	39.5	92	46	3	Concrete Lining
TA 178-R3	420.6	31.1	72	36	2	Concrete Lining
TA 178-L3	344.4	26.2	61	31	2	Concrete Lining
TA 178-R2	426.7	26.8	63	31	2	Concrete Lining
TA 178-L2	554.7	33.4	78	39	2	Concrete Lining
TA 178-R1	420.6	16.3	38	19	2	Concrete Lining
TA 178-L1	518.2	22.7	53	26	2	Concrete Lining
TA 178-L	3,142.5	135.2	315	157	1	Concrete Lining
TA 178-R	647.7	21.1	49	25	1	Concrete Lining
TA TPLI	4,821.9	148.1	345	172	10	
TA 136	1,968.1	1,325.9	3,089	1,545	7	
TA 136-L2	262.1	13.8	32	16	2	Concrete Lining
TA 136-L2-L1	310.9	4.5	10	5	1	Concrete Lining
TA 136-R1	905.3	46.5	108	54	4	Concrete Lining
TA 136-L1	1,009.5	68.7	160	80	4	Concrete Lining
TA 136-L1-L1	368.8	16.9	39	20	2	Concrete Lining
TA 136A	2,895.6	586.6	1,367	683	10	Concrete Lining
TA 136A-R7	591.3	18.3	43	21	3	Concrete Lining
TA 136A-R6	652.3	37.3	87	43	3	Concrete Lining
TA 136A-R5-L1	487.7	18.6	43	22	3	Concrete Lining
TA 136A-R5-R1	390.1	35.0	82	41	2	Concrete Lining
TA 136A-L5-R1	1,015.0	66.8	156	78	4	Concrete Lining
TA 136A-L5-L1	557.8	36.6	85	43	3	Concrete Lining
TA 136A-L5-L1-L1	338.3	6.2	14	7	1	Concrete Lining
TA 136A-L4	679.7	22.1	52	26	3	Concrete Lining

Table II-5 (20/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 136A TAMBAHAN	2,177.5	225.4	525	263	13	
TA 136A-L3	777.2	32.7	76	38	3	Concrete Lining
TA 136A-R4	1,066.8	48.7	113	57	4	Concrete Lining
TA 136A-R4-L1	190.2	9.6	22	11	1	Concrete Lining
TA 136A-L2	804.7	49.8	116	58	4	Concrete Lining
TA 136A-R3	317.0	18.8	44	22	2	Concrete Lining
TA 136A-L1	865.6	37.8	88	44	4	Concrete Lining
TA 136A-R2	435.9	17.1	40	20	2	Concrete Lining
TA 136A-R1	673.6	28.7	67	33	3	Concrete Lining
TA 136 B	4,773.2	345.2	804	402	20	
TA 136 B-R6	384.0	16.2	38	19	2	Concrete Lining
TA 136 B-R7	219.5	2.6	6	3	1	Concrete Lining
TA 136 B-L5	1,347.2	32.2	75	37	5	Concrete Lining
TA 136 B-R5	371.9	6.6	15	8	2	Concrete Lining
TA 136 B-R4	321.6	23.3	54	27	2	Concrete Lining
TA 136 B-R3	463.3	22.2	52	26	2	Concrete Lining
TA 136 B-R3-L1	335.3	5.1	12	6	1	Concrete Lining
TA 136 B-L4	501.4	13.4	31	16	3	Concrete Lining
TA 136 B-L2	725.4	18.1	42	21	4	Concrete Lining
TA 136 B-L3	356.6	17.9	42	21	3	Concrete Lining
TA 136 B-R2	513.6	27.2	63	32	3	Concrete Lining
TA 136 B-R1	130.5	37.5	87	44	1	Concrete Lining
TA 136 B-R1-L1	243.8	12.1	28	14	1	Concrete Lining
TA 136 B-R1-R1	469.4	1.3	3	2	2	Concrete Lining
TA 136 B-L1	786.4	42.1	98	49	3	Concrete Lining
TA 136 C	4,312.9	264.7	617	308	16	
TA 136 C-L5	263.7	51.4	120	60	1	Concrete Lining
TA 136 C-L5-R1	179.8	16.9	39	20	1	Concrete Lining

Table II-5 (21/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 136 C-L5-L1	521.2	34.5	80	40	3	Concrete Lining
TA 136 C-R4-R1	201.2	38.7	90	45	3	Concrete Lining
TA 136 C-R4-R1-L1	134.1	6.6	15	8	1	Concrete Lining
TA 136 C-R4	1,103.4	19.1	44	22	4	Concrete Lining
TA 136 C-R5	442.0	7.5	18	9	2	Concrete Lining
TA 136 C-L4	1,194.8	49.7	116	58	4	Concrete Lining
TA 136 C-L3	1,164.3	26.8	63	31	5	Concrete Lining
TA 136 C-R3	1,100.3	32.7	76	38	4	Concrete Lining
TA 136 C-R2	221.0	16.6	39	19	1	Concrete Lining
TA 136 C-L2	147.5	9.2	22	11	2	Concrete Lining
TA 136 C-L2-L1	213.4	4.6	11	5	1	Concrete Lining
TA 136 C-R1	295.0	15.7	37	18	2	Concrete Lining
TA 136 C-L1	185.6	17.4	40	20	1	Concrete Lining
TA 136 D	3,941.1	225.4	525	263	13	
TA 136 D-L5	463.3	21.5	50	25	2	Concrete Lining
TA 136 D-L4	597.4	41.2	96	48	3	Concrete Lining
TA 136 D-L3	502.9	29.5	69	34	2	Concrete Lining
TA 136 D-R1	469.4	17.6	41	21	3	Concrete Lining
TA 136 D-L2	780.3	33.4	78	39	4	Concrete Lining
TA 136 D-CHABAN	573.0	26.7	62	31	2	Concrete Lining
TA 136 D-L1	1,219.2	48.9	114	57	1	Concrete Lining

Table II-5 (22/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Q _n (lit/sec)	Q _n (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Compartment B					0	
TA 94	4,541.5	263.2	613	307	10	
TA 94-R1	771.4	21.0	49	24	4	Concrete Lining
TA 94-L1	394.1	16.5	38	19	2	Concrete Lining
TA 94-R2	358.7	15.8	37	18	2	Concrete Lining
TA 94-L2	256.0	17.2	40	20	2	Concrete Lining
TA 16	5,151.1	263.2	613	307	13	
TA 16-R1	219.5	4.9	11	6	1	Concrete Lining
TA 16-L1	1,253.9	35.8	83	42	6	Concrete Lining
TA 16-R2	1,802.9	51.6	120	60	7	Concrete Lining
TA 16-R2-R1	622.4	7.8	18	9	1	Concrete Lining
TA 16-R3	545.3	15.9	37	19	2	Concrete Lining
TA 16A	5,230.4	351.1	818	409	10	
TA 16A-L1	631.9	35.0	82	41	4	Concrete Lining
TA 16A-R1	1,148.8	31.8	74	37	4	Concrete Lining
TA 16A-L2	1,060.4	30.4	71	35	6	Concrete Lining
TA 16A-R2	456.9	18.7	44	22	2	Concrete Lining
TA 206	3,590.5	909.7	2,120	1,060	9	
TA 206-R1	1,056.1	31.2	73	36	5	Concrete Lining
TA 206-R2	1,119.2	23.8	55	28	3	Concrete Lining
TA 206-R3	495.0	13.4	31	16	3	Concrete Lining
TA 206-L1	1,345.1	32.2	75	37	6	Concrete Lining
TA 377	3,468.6	663.3	1,546	773	14	
TA 377 R1	728.5	72.3	168	84	4	
TA 377 R1-L1	760.5	17.2	40	20	4	Concrete Lining

Table II-5 (23/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 377 R1-R1	786.4	20.5	48	24	4	Concrete Lining
TA 377 R1-L2	463.0	8.4	20	10	2	Concrete Lining
TA 377 L1	265.2	9.1	21	11	2	Concrete Lining
TA 377 L2	623.9	18.0	42	21	4	Concrete Lining
TA 377 L3	701.0	35.8	83	42	1	Concrete Lining
TA 377 C	620.0	59.6	139	69	2	
TA 377 C-R1	630.9	17.2	40	20	3	Concrete Lining
TA 377 L4	342.0	7.4	17	9	0	Concrete Lining
TA 377 L5	663.5	25.9	60	30	3	Concrete Lining
TA 377 R2	807.7	43.5	101	51	4	Concrete Lining
TA 377 B	2,801.1	305.8	713	356	12	
TA 377 B-L1	449.6	8.4	20	10	2	Concrete Lining
TA 377 B-L2	260.9	12.5	29	15	1	Concrete Lining
TA 377 B-L3	231.6	17.0	40	20	1	Concrete Lining
TA 377 B-R1	579.1	38.3	89	45	1	Concrete Lining
TA 377 B-L4	801.0	79.4	185	93	3	Concrete Lining
TA 377 B-R2	659.6	90.1	210	105	5	Concrete Lining
TA 377 B-R2-R	422.1	6.3	15	7	3	Concrete Lining
TA 377 B-R2-L	835.2	51.7	121	60	4	Concrete Lining
TA 310	3,846.6	164.4	383	192	14	
TA 310-L1	151.2	12.1	28	14	1	Concrete Lining
TA 310-R1	138.4	12.1	28	14	1	Concrete Lining
TA 310-R2	346.3	15.4	36	18	2	Concrete Lining
TA 310-L2	406.9	19.8	46	23	3	Concrete Lining
TA 310-R3	245.1	8.9	21	10	2	Concrete Lining
TA 310-L3	130.5	10.7	25	12	1	Concrete Lining
TA 310-L4	144.8	9.8	23	11	1	Concrete Lining

Table II-5 (24/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 310 A	5,391.9	610.2	1,422	711	22	
TA 310 A-R1	383.1	21.1	49	25	2	Concrete Lining
TA 310 A-R2	159.1	8.7	20	10	1	Concrete Lining
TA 310 A-L1	239.6	12.6	29	15	2	Concrete Lining
TA 310 A-R3	472.7	40.4	94	47	3	Concrete Lining
TA 310 A-L2	462.1	23.9	56	28	3	Concrete Lining
TA 310 A-L3	362.7	20.0	47	23	2	Concrete Lining
TA 310 A-R4	783.6	54.8	128	64	3	Concrete Lining
TA 310 A-L4	489.8	31.0	72	36	3	Concrete Lining
TA 310 A-R5	524.6	13.1	31	15	3	Concrete Lining
TA 310 A-L5	375.8	16.6	39	19	2	Concrete Lining
TA 310 A-L6	678.2	32.4	76	38	4	Concrete Lining
TA 310 A-L7	441.0	34.6	81	40	8	Concrete Lining
TA 32	2,895.6	147.4	343	172	8	
TA 32-R1	223.7	7.8	18	9	2	Concrete Lining
TA 32-L1	409.7	18.6	43	22	3	Concrete Lining
TA 50	963.2	296.3	690	345	6	
TA 50-R1	344.4	12.4	29	14	2	Concrete Lining
TA 50-L1	103.6	5.0	12	6	1	Concrete Lining
TA 50-L2	357.2	72.4	169	84	2	Concrete Lining
TA 50-L2-R1	914.4	62.1	145	72	6	Concrete Lining
TA 50-L2-R1-L1	176.8	51.4	120	60	1	Concrete Lining
TA 50-L2-R1-R1	408.4	28.8	67	34	1	Concrete Lining
TA 80KN-A	1,440.2	78.5	183	91	4	
TA 80KN-A-L1	1,408.2	42.8	100	50	5	Concrete Lining
TA 80KN-A-R1	539.5	16.6	39	19	4	Concrete Lining

Table II-5 (25/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 80 KI	2,560.3	296.3	690	345	12	
TA 80 KI-R1	1,539.2	29.8	69	35	8	Concrete Lining
TA 80 KI-L1	545.3	23.1	54	27	2	Concrete Lining
TA 80 KI-L1-R1	435.9	3.8	9	4	2	Concrete Lining
TA 80 KI-A	1,889.8	87.1	203	101	2	Concrete Lining
TA 80 KI-R2	646.2	22.6	53	26	4	Concrete Lining
TA 80 KI-L2	1,135.4	31.5	73	37	6	Concrete Lining
TA 80 KI-R3	659.9	27.6	64	32	5	Concrete Lining
TA 80 KI-R1-A	716.3	21.5	50	25	4	Concrete Lining
TA 160	1,420.4	71.7	167	84	4	
TA 160-L1	577.3	17.7	41	21	3	Concrete Lining
TA 200	2,974.8	209.2	487	244	5	
TA 200 B	914.4	49.1	114	57	1	Concrete Lining
TA 200-R1	352.0	10.1	23	12	1	Concrete Lining
TA 218 KI	5,867.4	1,345.7	3,136	1,568	25	
TA 218 KI-L1	845.8	22.5	52	26	4	Concrete Lining
TA 218 KI-L2	491.9	29.0	68	34	3	Concrete Lining
TA 218 KI-L3	534.9	35.6	83	41	3	Concrete Lining
TA 218 KI-R1	385.6	11.9	28	14	3	Concrete Lining
TA 218 KI-R2	878.7	36.3	85	42	5	Concrete Lining
TA 218 KI-L4	657.5	21.6	50	25	3	Concrete Lining
TA 218 KI-L5	486.5	18.1	42	21	2	Concrete Lining
TA 218 KI-L6	431.9	19.8	46	23	2	Concrete Lining
TA 218 KI-R3	336.5	15.8	37	18	2	Concrete Lining
TA 218 KI-L7	277.4	16.8	39	20	2	Concrete Lining

Table II-5 (26/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 218 KI B	1,828.8	75.4	176	88	8	
TA 218 KI B-R1	303.0	14.3	33	17	2	Concrete Lining
TA 218 KI B-R2	281.6	20.0	47	23	2	Concrete Lining
TA 218 KI B-L1	289.6	20.8	48	24	2	Concrete Lining
TA 218 KI B-L2	190.5	13.1	31	15	1	Concrete Lining
TA 218 KI B-R3	151.5	8.5	20	10	1	Concrete Lining
TA 218 KI C	3,145.5	286.9	668	334	13	Concrete Lining
TA 218 KI C-R1	1,462.4	24.7	57	29	3	Concrete Lining
TA 218 KI C-L1	485.5	35.7	83	42	3	Concrete Lining
TA 218 KI C-R2	545.6	28.2	66	33	2	Concrete Lining
TA 218 KI C-L2	251.5	7.7	18	9	2	Concrete Lining
TA 218 KI C-L3	445.0	41.4	97	48	5	Concrete Lining
TA 218 KI C-L3-R1	446.2	14.6	34	17	3	Concrete Lining
TA 218 KI C-L3-R2	420.6	9.7	23	11	3	Concrete Lining
TA 218 KI C-L3-L1	162.8	6.6	15	8	1	Concrete Lining
TA 218 KI C-L3-L2	378.0	10.6	25	12	2	Concrete Lining
TA 218 KI C-R3	603.5	52.6	123	61	4	Concrete Lining
TA 218 KI C-R3-R1	269.1	8.6	20	10	2	Concrete Lining
TA 218 KI C-R3-R2	627.6	15.2	35	18	3	Concrete Lining
TA 218 KI C-R3-L1	854.0	24.5	57	29	3	Concrete Lining
TA 218 KI C-R4	780.3	44.3	103	52	1	Concrete Lining
TA 218 KI C-L4	548.6	34.6	81	40	2	Concrete Lining
TA 218 KI C-L4-L1	319.7	5.2	12	6	2	Concrete Lining

Table II-5 (27/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Compartment A						
TA R1	798.6	47.5	111	55	5	
TA L1	749.8	46.8	109	55	5	
TA 218KN	1,533.1	263.2	613	307	8	
TA 218KN-C	728.5	34.3	80	40	3	Concrete Lining
TA 218KN-C-L1	329.2	10.8	25	13	2	Concrete Lining
TA 218KN-D	1,578.9	125.0	291	146	4	
TA 218KN-D-L2	902.2	35.6	83	41	4	Concrete Lining
TA 218KN-D-L2-R1	396.2	11.3	26	13	2	Concrete Lining
TA 218KN-D-L1	530.4	16.4	38	19	2	Concrete Lining
TA 218KN-E	512.1	35.6	83	41	2	
TA 218KN-E-R1	670.6	27.7	65	32	3	Concrete Lining
TA 218KN-F	701.0	35.0	82	41	1	Concrete Lining
TA R2	573.0	11.4	27	13	3	
TA 255KI	929.6	75.0	175	87	6	
TA 255KI-L1	524.3	28.7	67	33	3	Concrete Lining
TA 255KI-R2	524.3	30.5	71	36	2	Concrete Lining
TA 255KI-R2-L1	128.0	9.1	21	11	1	Concrete Lining
TA 255KI-R1	588.3	40.4	94	47	3	Concrete Lining
TA 255 KN	893.1	88.7	207	103	7	
TA 255 KN-L2	768.1	17.4	40	20	3	Concrete Lining
TA 255 KN-R2	454.2	29.2	68	34	3	Concrete Lining
TA 255 KN-R1	737.6	32.4	76	38	3	Concrete Lining
TA 255 KN-L1	91.4	5.8	14	7	1	Concrete Lining
TA L2	262.1	0.0	0	0	2	
TA R3	1,194.8	19.8	46	23	5	
TA 303/340	1,902.0	677.5	1,579	789	9	
TA 303-R3	585.2	23.8	55	28	2	Concrete Lining

Table II-5 (28/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA 303-R2	1,706.9	44.0	102	51	5	Concrete Lining
TA 303 A	1,431.0	60.9	142	71	3	Concrete Lining
TA 303 A-R1	262.1	15.4	36	18	1	Concrete Lining
TA 303-R1	1,133.9	47.9	112	56	4	Concrete Lining
TA 303-L2	585.2	28.1	65	33	4	Concrete Lining
TA 303-L2-R1	201.2	5.2	12	6	1	Concrete Lining
TA 303-L1	502.9	42.4	99	49	2	Concrete Lining
TA 340 KN	5,321.8	422.6	985	492	18	
TA 340 KN-L3	688.8	22.1	52	26	2	Concrete Lining
TA 340 KN-R4	481.6	17.7	41	21	3	Concrete Lining
TA 340 KN A	960.1	82.6	192	96	5	
TA 340 KN A-R1	1,054.6	33.4	78	39	4	Concrete Lining
TA 340 KN A-L1	865.6	21.7	51	25	4	Concrete Lining
TA 340 KN A-L1-L1	295.7	6.2	14	7	1	Concrete Lining
TA 340 KN B	609.6	27.7	65	32	2	
TA 340 KN B-L1	304.8	11.5	27	13	2	Concrete Lining
TA 340 KN C	707.1	55.3	129	64	3	
TA 340 KN C-R1	451.1	11.2	26	13	2	Concrete Lining
TA 340 KN-R3	579.1	22.6	53	26	2	Concrete Lining
TA 340 KN-R3-L1	365.8	4.5	10	5	1	Concrete Lining
TA 340 KN-R2	310.9	19.3	45	22	2	Concrete Lining
TA 340 KN-L2	981.5	43.2	101	50	4	Concrete Lining
TA 340 KN-R1	195.1	8.9	21	10	1	Concrete Lining
TA 340 KN-L1	481.6	15.1	35	18	2	Concrete Lining

Table II-5 (29/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA L3	1,530.1	47.5	111	55	6	
TA R4	960.1	22.5	52	26	4	
TA -IKI	792.5	47.4	110	55	3	
TA -IKI-R1	189.0	9.8	23	11	2	Concrete Lining
TA -IKI-L1	585.2	13.1	31	15	2	Concrete Lining
TA R5	1,783.1	63.1	147		6	
TA Air Hitam	3,486.9	687.9	1,603	801	14	
TA Air Hitam I-K1	289.6	10.9	25	13	1	Concrete Lining
TA Air Hitam L2	1,100.3	48.5	113	56	5	Concrete Lining
TA Air Hitam L2-L1	304.8	13.1	31	15	2	Concrete Lining
TA Air Hitam R2	871.7	28.4	66	33	4	Concrete Lining
TA Air Hitam -2KN	435.9	18.2	42	21	1	Concrete Lining
TA Sg. Tongkan	2,788.9	312.2	727	364	12	
TA Air Hitam L1	609.6	53.0	77	38	3	Concrete Lining
TA Air Hitam R1	445.0	17.6	41	21	3	Concrete Lining
TA Air Hitam A1	506.0	7.3	17	8	1	Concrete Lining
TA Air Hitam A2	609.6	12.1	28	14	1	Concrete Lining
TA L4	938.8	44.8	104	52	4	
TA-IKN	731.5	54.7	127	64	3	
TA-IKN-1	634.0	27.2	63	32	3	Concrete Lining
TA T.Tuntung	1,554.5	122.7	286	143	2	Concrete Lining
TA T.Tuntung-L1	487.7	21.6	50	25	2	Concrete Lining
TA T.Tuntung-R1	1,280.2	40.1	93	47	6	Concrete Lining
TA T.Tuntung-R1-R1	487.7	15.4	36	18	3	Concrete Lining

Table II-5 (30/30) List of Irrigation Canal (Kerian Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Op (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
TA L5	1,048.5	31.2	73	36	5	
TA R6	563.9	22.0	51	26	3	
TA L6	512.1	20.5	48	24	3	
TA Sg. Udang	658.4	68.3	159	80	5	
TA Sg. Udang-BR KN	121.9	1.7	4	2	1	Concrete Lining
TA Sg. Udang-BR K1	243.8	27.9	65	33	1	Concrete Lining
TA Sg. Udang-BR K1-L1	634.0	23.6	55	27	2	Concrete Lining
TA Baru-K1	2,529.8	27.9	65	33	4	Concrete Lining
TA Baru KN	435.9	10.9	25	13	1	Concrete Lining
TA R7	563.9	20.7	48	24	2	
TA Berembang	2,651.8	9.8	3	1	9	
TA Berembang R3	1,460.0	57.7	134	67	5	Concrete Lining
TA Berembang L4	1,015.0	37.3	87	43	4	Concrete Lining
TA Berembang L3	847.3	41.9	98	49	5	Concrete Lining
TA Berembang R2	1,883.7	61.1	142	71	5	Concrete Lining
TA Berembang L2	652.3	32.9	77	38	3	Concrete Lining
TA Berembang R1	883.9	26.8	63	31	3	Concrete Lining
TA Berembang L1	1,079.0	38.4	89	45	5	Concrete Lining
TA Sg. Tongkan-R2	518.2	18.3	43	21	3	Concrete Lining
TA Sg. Tongkan-L3	1,444.8	37.4	87	44	6	Concrete Lining
TA Sg. Tongkan-L2	339.9	10.2	24	12	1	Concrete Lining
TA Sg. Tongkan-L1	499.9	14.1	33	16	3	Concrete Lining
TA Sg. Tongkan-R1	408.4	18.3	43	21	2	Concrete Lining
TA Sg. Tongkan-FGH	1,188.7	110.5	258	129	1	Concrete Lining
TA Sg. Tongkan-FD		37.7	88	44	0	Concrete Lining
TA Sg. Tongkan-B2	457.2	12.1	28	14	1	Concrete Lining
TA Sg. Tongkan-B34	1,463.0	35.2	82	41	1	Concrete Lining

Table II-6 (1/4) List of Drain (Kerian Scheme)

(1/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
Compartment A			
PT.SG.STAR	1,719	111.0	1,066
PT.SG.STAR-L1	737	125.2	1,202
PT.TEPI JLN SGACHEH-L2	1,351	63.4	609
SG.ACHEH	823	106.5	1,022
SG.AIR HITAM	2,554	119.4	1,146
SG.BAKAU	2,603	137.5	1,320
SG.CHENAAM	3,684	522.0	5,011
SG.KOTA	9,271	224.8	2,158
NON NAME	614	39.2	376
NON NAME	1,228	103.2	991
NON NAME	712	49.6	476
PARIT 218	614	127.3	1,222
PARIT 235	896	77.9	748
PARIT JAWA	1,744	196.1	1,883
PARIT KG KEDAH	1,461	101.4	973
PARIT PENGHULU SALAM	1,670	172.9	1,660
PARIT SG.STAR KIRI	1,793	186.2	1,788
PART SG.BAKAU	3,095	105.8	1,016
PART SG.ACHEH	2,972	152.8	1,467
PT.218 KN-A	454	47.5	456
PT.KEBUN KUYUNG	1,289	121.1	1,163
PT.KEBUN KUYUNG TAMBAHAL	1,228	48.0	461
PT.SG.AIR HITAM	749	93.9	901
PT.TEPI JLN SG.BAKAU KE SG.KOTA	1,388	82.7	794
PT.TSN SG.ACHEH	577	137.1	1,316
SG.STAR A	982	41.4	397
SG.STAR B	3,070	306.9	2,946
Total	49,280	3,600.8	
Compartment B			
SG. KOTA	-	272.0	2,611
PARIT N	7,520	457.9	4,396
PT TEPI JALAN... KESPG5	3,093	172.0	1,651
RD SIDE DRAIN B	960	50.2	482
NON NAME	2,120	87.0	835
NON NAME	1,534	220.3	2,115
NON NAME	3,242	351.0	3,370
NON NAME	661	8.3	80
NON NAME	5,075	86.7	832
NON NAME	935	33.9	325
NON NAME	985	17.3	166
PARIT 80 KN B	1,496	115.8	1,112
PARIT CABANG SPG LIMA	3,504	107.3	1,030
PARIT H NASIR	2,220	146.5	1,406
PARIT HAJI WAHAB L1	2,195	98.9	949
PARIT HJ WAHAB	3,803	190.1	1,825
PARIT HJ YUSOF	1,708	23.0	221
PARIT LEBAL AKIR	3,242	250.9	2,409
PARIT MAT ALAM	2,020	218.2	2,095
PARIT SG.BETUL	2,868	344.4	3,306
PARIT SUNGAI LABU	4,327	258.9	2,485
PARIT SUNGAI MEGAT ARIS	5,125	408.7	3,924
PARIT50	3,106	133.0	1,277
PT SG.MEGAT ARIS RI	860	28.7	276

Note : The above list presents major drains.

Table II-6 (2/4) List of Drain (Kerian Scheme)

(2/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
PT.SG.MEGAT ARIS	2,132	26.2	252
PT. BI	1,746	86.7	832
RD SIDE DRAIN...TITI SERONG	2,270	139.1	1,335
SG.KOTA LA	187	23.3	224
Total	68,936	4,356.3	
Compartment C			
NON NAME	9,083	514.0	4,934
PARIT 30	8,906	188.9	1,813
PARIT TELOK PIAL	9,257	780.2	7,490
NON NAME	1,897	250.3	2,403
NON NAME	6,414	230.0	2,208
NON NAME	936	57.0	547
NON NAME	1,973	101.7	976
PARIT CABANG MAT ALI	3,795	228.6	2,195
PARIT HI.DERAMAN	2,264	60.3	579
PARIT HI.MANAN	886	52.0	499
PARIT HI.MAT TAHR	1,986	62.2	597
PARIT HI.SYED	1,543	45.0	432
PARIT HI.USOP	1,518	70.2	674
PARIT JALAN PANTAI LAMA	2,998	157.3	1,510
PARIT JAWA	2,391	80.4	772
PARIT MAT ALI B	1,682	39.2	376
PARIT MILAN	2,442	132.4	1,271
PARIT SG. BARU	2,214	449.2	4,312
PARIT SG. BURONG	8,197	477.0	4,579
PARIT TANJONG PIANDANG	5,680	476.8	4,577
PARIT TOK IN	6,110	351.7	3,376
PARIT TOK KIB	860	59.9	575
Total	83,032	4,864.3	
Compartment D			
NON NAME	7,635	58.6	563
NON NAME	10,870	176.6	1,695
NON NAME	2,976	98.2	943
PARIT 1024	3,520	282.4	2,711
PARIT 1038 KN-A	1,876	62.8	603
PARIT 1060	3,727	304.0	2,918
PARIT 1088 KN	1,876	162.2	1,557
PARIT 1088 KN-A	5,099	71.4	685
PARIT 1109	4,206	312.1	2,996
PARIT 1140	4,503	355.5	3,413
PARIT 1140 KN-A	1,799	41.8	401
PARIT 1140KN-R2	2,329	94.5	907
PARIT 935	2,213	236.0	2,266
PARIT 994	3,546	196.1	1,883
PARIT A	2,329	162.7	1,562
PARIT JALAN BARU A	3,222	143.6	1,379
PARIT B	4,141	317.9	3,052
PARIT MAT SAMAN	3,623	211.9	2,034
PARIT D	1,268	88.8	852
PARIT SALURAN I	2,329	289.6	2,780
PRIT 910	2,744	153.6	1,475

Note : The above list presents major drains.

Table II-6 (3/4) List of Drain (Kerian Scheme)

(3/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
PT MAT ARIS	2,588	194.2	1,861
PT PAORI	1,450	113.7	1,092
PT PAORI KN2-R1	841	55.9	537
PT. BAKI	1,811	96.1	923
PT.LUBANG TEMBAH	3,610	125.7	1,207
PT.SG.BOGAK	906	-	
PT. SYAKAP - A	1,980	94.4	906
SG.BOGAK	259	50.6	486
Total	89,274	4,550.9	
Compartment E			
NON NAME	7,489	122.2	1,173
PARIT ABU HASSAN	2,277	91.4	877
PARIT LEBAI KADIR	5,009	294.6	2,828
NON NAME	2,619	105.2	1,010
PARIT I	2,340	247.7	2,378
PARIT AIR HITAM 2	1,164	68.6	659
PARIT AIR HITAM 3	4,010	105.4	1,012
PARIT BIIARU	2,277	201.5	1,934
PARIT HAJI ALI 3	3,036	268.6	2,579
PARIT HAJI ALI 3A	1,316	111.0	1,066
PARIT HAJI TAIB 3	3,669	299.1	2,871
PARIT ISMALL 3	1,354	114.5	1,099
PARIT MTG MERBAU	4,199	227.8	2,187
PT. SG. KASSIM	4,301	145.7	1,399
PT. SG. SEMAMBU	5,857	870.8	8,360
PT. SPG. EMPAT	2,062	146.4	1,405
PT. SPG. LIMA	4,074	198.0	1,901
Total	57,052	3,618.5	34,738
Compartment F			
NON NAME	3,526	44.4	426
NON NAME	4,319	-	
NON NAME	1,928	-	
NON NAME	1,098	-	
NON NAME	903	85.1	817
NON NAME	1,525	58.4	561
NON NAME	1,854	48.4	465
NON NAME	512	32.6	313
PARIT ABAS	512	32.6	313
PARIT ALI KALANG 1	3,257	114.2	1,096
PARIT ALI KALANG 2	3,941	306.8	2,945
PARIT HJ. ALI 1	2,342	237.7	2,282
PARIT HJ. ALI 2	2,233	184.2	1,768
PARIT HJ. AMAN 1	7,613	339.8	3,262
PARIT HJ. AMAN 2	3,416	269.9	2,591
PARIT HJ. TAIB 1	1,708	108.4	1,041
PARIT HJ. TAIB 2	1,793	144.0	1,382
PARIT MAT KLING 1	6,320	261.6	2,511
PARIT MENTARA 1	1,464	115.0	1,104
PARIT MENTARA 2	1,403	103.9	997
PARIT PANCOR 1	7,906	307.2	2,949
PARIT PANCOR 2	2,867	226.0	2,170
PT Ah Ngau	793	35.4	340
Total	62,722	3,023.0	

Note : The above list presents major drains.

Table II-6 (4/4) List of Drain (Kerian Scheme)

(4/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
Compartment G			
NON NAME	3,190	152.9	1,468
PARIT 6	4,951	98.5	946
NON NAME	1,266	63.2	607
NON NAME	2,709	129.2	1,240
NON NAME	1,443	41.6	399
NON NAME	873	92.7	890
NON NAME	2,064	53.7	516
NON NAME	2,431	49.7	477
NON NAME	3,760	27.6	265
NON NAME	4,722	103.8	996
PARIT 51SK	2,696	83.2	799
PARIT 1	2,000	72.6	697
PARIT 10A	418	48.4	465
PARIT 11	696	73.3	704
PARIT 2B	937	78.5	754
PARIT 2C	633	20.6	198
PARIT 2D	418	32.0	307
PARIT 4	1,240	30.5	293
PARIT 5A	342	9.8	94
PARIT 5B	608	46.8	449
PARIT 5C	544	13.8	132
PARIT 5D	1,063	150.1	1,441
PARIT 8C	1,000	45.1	433
PARIT 9	2,330	213.9	2,053
PARIT GULA BARU	3,798	109.7	1,053
PARIT SG.BIHARU	2,291	94.6	908
PT 3A	532	64.5	619
PT 3B	532	34.8	334
PT 3C	1,621	116.8	1,121
PT 3D	405	44.9	431
PT 1A	1,798	145.2	1,394
PARIT 515KN	2,671	73.9	709
Total	55,983	2,415.9	
Compartment H			
PARIT 290	6,186	230.3	2,211
SG.KEPAL	2,835	100.0	960
NON NAME	5,872	151.5	1,454
NON NAME	6,627	119.3	1,145
NON NAME	2,306	68.9	661
NON NAME	970	82.3	790
NON NAME	970	52.5	504
NON NAME	655	44.1	423
TERUSAN BESAR	3,994	164.2	1,576
TEBOK PANCHOR A	3,490	138.5	1,330
PT 444-R1	2,281	94.3	905
PT 2C-L1	1,449	45.0	432
PARIT 84	5,141	354.9	3,407
PARIT 60	4,788	291.6	2,799
PT. SAMUBUNGAN 375B	3,591	227.1	2,180
PARIT 2C	1,386	33.3	320
PARIT 2A-R1	1,121	75.0	720
PARIT 2A	1,008	53.4	513
PARIT 257	2,809	120.8	1,160
PARIT 224	4,851	247.6	2,377
PARIT 181	4,309	213.3	2,048
PARIT 140	8,001	368.1	3,534
PARIT 403	1,890	48.9	469
BORROWPIT DRAIN	8,896	237.8	2,283
Total	85,427	3,562.7	

Note : The above list presents major drains.

Table II - 7 General Features of Irrigation and Drainage (Sungai Manik Scheme)

Description	Features	Remarks
1. Number and Name of Sub-area	2 sub-schemes - Labu Kubong Sub-Scheme - Sg. Manik Sub-Scheme	
2. Number and Name of Irrigation Block - Labu Kubong Sub-Scheme - Sg. Manik Sub-Scheme	9 blocks 4 blocks (Block 4A, 4B, 5A, 5B) 5 blocks (Block 1A, 1B, 2, 3A, 3B)	
3. Net Irrigation Area	6,318 ha	
- Labu Kubong	2,716 ha	
Block 4A	756 ha	
Block 4B	855 ha	
Block 5A	631 ha	
Block 5B	474 ha	
- Sg. Manik	3,602 ha	
Block 1A	633	
Block 1B	644	
Block 2	1,000	
Block 3A	707	
Block 3B	618	
4. Water Source	Sungai Batang Padan	
5. Intake Method - Block 4A, 4B, 5A, 5B, 1A, 1B, 2, 3A - Block 3B	Gravity (Sungai Manik Headworks) Pumping (Chikus Pump Station)	
6. Designed Intake Discharge - Sg. Manik Headworks - Chikus Pump Station	16.99 m ³ /sec 0.85 m ³ /sec	
7. Unit Field Water Requirement	2.80 l/sec/ha at peak	
8. Irrigation Facilities		
Sungai Manik Headworks	Gated weir : Roller gate 6 nos.	Motor driving
Chikus Pump Station	Intake gate : Roller gate 1.5m x 2.5 m x 5 nos.	
Left main canal	0.43 m ³ /sec/each x 3 nos.	
Right main canal	1.5 km	
Secondary canal	11.9 km	Sediment in canal
Tertiary canal	51.2 km	Concrete lining 5.8 km
Related structures	186.5 km	Concrete lining 51.4 km in Labu Kubong
	422 nos.	
9. Drainage Facilities		
Main & secondary drain	61km	
Tertiary drain	181km	
Drainage control gate (tidal gate)	3 nos.	
10. Farm Road	245.3 km	Laterite pavement, 3 m width along main & secondary, 1.8 m width along tertiary canal

Table II-8 (1/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
Main Canal						
Left Main Canal	1,485.0	3,601.5	10.084	5.042	1	Earth canal
Right Main Canal	11,880.0	2,715.9	7.605	3.802	4	Earth canal
Total	13,365.0				5	
Secondary Canal						
Sungai Manik Sub-Scheme						
Tali Air No.1	6,696.0	2,276.7	6,375	3,187	33	Earth canal
Tali Air No.2	5,400.0	633.2	1,773	886	23	Earth canal
Tali Air No.3A	3,688.6	706.1	1,977	989	13	Earth canal
Tali Air No.3B	5,766.7	240.9	675	337	17	Concrete lining
Tali Air No.4	4,686.3	338.9	949	474	10	Earth canal
Tali Air No.5	5,839.0	2,895.4	8,107	4,054	22	Earth canal
Total (Sg. Manik)	(32,076.6)	(7,091.2)			(118)	
Labu Kubong Sub-Scheme						
Tali Air No.6	11,083.5	1,611.3	4,512	2,256	41	Earth canal
Tali Air No.7	8,073.0	1,104.6	3,093	1,546	25	Earth canal
Total (Labu Kubong)	(19,156.5)	(2,715.9)			(66)	
Total (Secondary)	51,233.1	9,807.1			184	
Tertiary Canal						
Sungai Manik Sub-Scheme						
Block 1A						
T.A. 2-0 L/1	1,539.0	13.9	39	19.5	1	Earth canal
T.A. 2-0 L	1,390.5	7.5	21	11	1	Earth canal
T.A. 2-2 L/1	1,012.5	33.9	95	47	2	Earth canal
T.A. 2-2 L	1,012.5	36.9	103	52	1	Earth canal

Table II-8 (2/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 2-3 L	985.5	35.9	101	50	1	Earth canal
T.A. 2-4 L	1,107.0	41.0	115	57	3	Earth canal
T.A. 2-5 L	1,147.5	42.2	118	59	1	Earth canal
T.A. 2-6 L	1,147.5	42.0	118	59	3	Earth canal
T.A. 2-7 L	1,147.5	41.5	116	58	1	Earth canal
T.A. 2-8 L	1,147.5	34.6	97	48	3	Earth canal
T.A. 2-0 R	445.5	21.9	61	31	1	Earth canal
T.A. 2-1 R	634.5	23.3	65	33	1	Earth canal
T.A. 2-2 R	702.0	27.6	77	39	2	Earth canal
T.A. 2-3 R	837.0	33.2	93	46	1	Earth canal
T.A. 2-4 R	850.5	34.1	95	48	2	Earth canal
T.A. 2-5 R	850.5	32.8	92	46	1	Earth canal
T.A. 2-6 R	850.5	33.5	94	47	2	Earth canal
T.A. 2-7 R	850.5	32.6	91	46	1	Earth canal
T.A. 2-8 R	1,485.0	47.0	132	66	2	Earth canal
T.A. 2-8 R/1	378.0					Earth canal
T.A. 2-8 R/2	297.0					Earth canal
T.A. 2-9 R	2,079.0	17.8	50	25	2	Earth canal
Sub-total	(21,897.0)	(633.2)			(32)	
Block 1B						
T.A. 1-2 L	1,012.5	42.2	118	59	2	Earth canal
T.A. 1-3 L	1,174.5	49.0	137	69	1	Earth canal
T.A. 1-4 L	1,228.5	53.0	148	74	1	Earth canal
T.A. 1-5 L	1,390.5	57.5	161	81	3	Earth canal
T.A. 1-6 L	1,485.0	57.9	162	81	1	Earth canal
T.A. 1-7 L	1,485.0	49.5	139	69	3	Earth canal
T.A. 1-8 L	1,485.0	58.0	162	81	1	Earth canal

Table II-8 (3/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 1-9 L	1,485.0	58.0	162	81	3	Earth canal
T.A. 1-10 L	1,485.0	58.0	162	81	1	Earth canal
T.A. 1-11 L	1,485.0	58.0	162	81	3	Earth canal
T.A. 1-12 L	1,485.0	58.8	165	82	1	Earth canal
T.A. 1-13 L	1,485.0	44.1	123	62	2	Earth canal
Sub-total	(16,686.0)	(644.0)			(22)	
Block 2						
T.A. 1-1 R	2,484.0	79.9	224	112	4	Earth canal
T.A. 1-2 R	1,660.5	54.6	153	76	1	Earth canal
T.A. 1-4 R	1,755.0	65.7	184	92	1	Earth canal
T.A. 1-5 R	1,660.5	68.6	192	96	4	Earth canal
T.A. 1-6 R	1,768.5	74.0	207	104	2	Earth canal
T.A. 1-7 R	1,957.5	80.2	225	112	4	Earth canal
T.A. 1-8 R	2,119.5	84.9	238	119	1	Earth canal
T.A. 1-9 R	2,254.5	85.9	241	120	5	Earth canal
T.A. 1-10 R	2,254.5	86.3	242	121	2	Earth canal
T.A. 1-11 R	2,254.5	77.2	216	108	5	Earth canal
T.A. 1-12 R	2,254.5	87.4	245	122	2	Earth canal
T.A. 1-13 R	2,227.5	94.2	264	132	5	Earth canal
T.A. 1-14 R	2,524.7	60.6	170	85	2	Earth canal
Sub-total	(27,175.7)	(999.5)			(38)	
Block 3A						
T.A. 3A-1R	1,173.5	40.8	114	57	1	Earth canal
T.A. 3A-1R/1	522.1	18.5	52	26	2	Earth canal
T.A. 3A-2R	1,389.6	48.4	136	68	3	Earth canal
T.A. 3A-3R	1,085.4	43.1	121	60	1	Earth canal
T.A. 3A-4R	1,051.6	43.9	123	61	1	Earth canal

(3/7)

Table II-8 (4/7) List of Irrigation Canal (Sungai Manik Scheme)

(4/7)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 3A-5R	1,047.0	42.3	118	59	3	Earth canal
T.A. 3A-6R	975.4	39.3	110	55	2	Earth canal
T.A. 3A-7R	996.2	43.1	121	60	3	Earth canal
T.A. 3A-8R	1,222.2	47.8	134	67	2	Earth canal
T.A. 3B-1R	442.6	21.2	59	30	1	Concrete lining
T.A. 3B-1R/1	908.3	28.2	79	39	1	Concrete lining
T.A. 3B-2R	957.1	26.3	74	37	1	Concrete lining
T.A. 3B-2R/1	812.3	24.4	68	34	1	Concrete lining
T.A. 3B-3R	780.9	22.4	63	31	2	Concrete lining
T.A. 3B-3R/1	624.8	20.1	56	28	1	Concrete lining
T.A. 3B-4R	693.1	20.1	56	28	1	Concrete lining
T.A. 3B-4R/1	536.4	22.1	62	31	2	Concrete lining
T.A. 3B-5R	513.0	43.1	121	60	1	Concrete lining
T.A. 3B-1L	436.5	13.0	36	18	1	Concrete lining
T.A. 4-1R	1,495.0	55.3	155	77	1	Earth canal
T.A. 4-2R	1,395.1	42.7	120	60	2	Concrete lining
Sub-total	(19,058.1)	(706.1)			(33)	
Block 3B						
T.A. 5-1R	390.0	7.3	20	10	1	Earth canal
T.A. 5-2R	338.3	11.2	31	16	1	Earth canal
T.A. 5-3R	899.2	13.4	38	19	2	Earth canal
T.A. 5-4R	1,030.2	30.0	84	42	2	Earth canal
T.A. 5-5R	1,475.2	49.7	139	70	3	Earth canal
T.A. 5-6R	1,664.5	65.1	182	91	3	Earth canal
T.A. 5-7R	1,740.4	70.9	199	99	3	Earth canal
T.A. 5-8R	2,316.5	95.8	268	134	4	Earth canal
T.A. 5-1L	480.4	17.8	50	25	1	Earth canal

Table II-8 (S/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 5-2L	705.6	31.2	87	44	1	Earth canal
T.A. 5-3L	1,188.7	38.7	108	54	1	Earth canal
T.A. 5-4L	1,136.9	42.8	120	60	1	Earth canal
T.A. 5-5L	1,316.7	52.6	147	74	2	Earth canal
T.A. 5-6L	1,386.5	52.7	148	74	1	Earth canal
T.A. 5-7L	1,325.9	39.5	111	55	1	Earth canal
Sub-total	(17,395.0)	(618.7)			(27)	
Total (Sg. Manik)	102,211.8	3,601.5			152	
Labu Kubong Sub-Scheme						
Block 4A						
T.A. 6-1L	1,417.5	36.8	103	52	2	Earth canal
T.A. 6-1/2L	1,147.5	32.9	92	46	1	Concrete lining
T.A. 6-2L	1,282.5	43.7	122	61	1	Earth canal
T.A. 6-2/3L	1,417.5	45.7	128	64	1	Concrete lining
T.A. 6-3L	1,282.5	42.3	118	59	2	Earth canal
T.A. 6-3/4L	1,080.0	31.1	87	44	1	Concrete lining
T.A. 6-4L	891.0	29.1	81	41	1	Earth canal
T.A. 6-4/5L	702.0	23.7	66	33	1	Concrete lining
T.A. 6-5L	756.0	26.9	75	38	1	Earth canal
T.A. 6-5/6L	810.0	28.3	79	40	1	Concrete lining
T.A. 6-2R	1,620.0	49.9	140	70	1	Earth canal
T.A. 6-2/3R	1,620.0	58.4	164	82	1	Concrete lining
T.A. 6-3R	1,620.0	56.5	158	79	1	Concrete lining
T.A. 6-3/4R	1,620.0	57.3	160	80	1	Concrete lining
T.A. 6-4R	1,620.0	51.3	144	72	2	Earth canal
T.A. 6-4/5R	1,620.0	50.4	141	71	1	Concrete lining
T.A. 6-5R	1,620.0	43.8	123	61	2	Earth canal

(S/7)

Table II-8 (6/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	QP (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 6-5/6R	1,620.0	48.0	134	67	2	Concrete lining
Sub-total	(23,746.5)	(756.1)			(23)	
Block 4B						
T.A. 6-6L	810.0	24.6	69	34	1	Earth canal
T.A. 6-6/7L	2,457.0	79.4	222	111	1	Concrete lining
T.A. 6-7L	1,957.5	53.8	151	75	2	Earth canal
T.A. 6-7/8L	1,795.5	39.9	112	56	1	Concrete lining
T.A. 6-8L	1,674.0	57.0	160	80	1	Earth canal
T.A. 6-8/9L	1,444.5	49.5	139	69	1	Concrete lining
T.A. 6-9L	1,174.5	39.6	111	55	2	Earth canal
T.A. 6-10L	742.5	62.8	176	88	1	Earth canal
T.A. 6-11/12R	540.0	39.8	111	56	1	Concrete lining
T.A. 6-7/8R	1,755.0	57.9	162	81	1	Concrete lining
T.A. 6-8R	1,755.0	58.0	162	81	2	Earth canal
T.A. 6-8/9R	1,755.0	59.8	167	84	1	Concrete lining
T.A. 6-9R	1,647.0	57.3	160	80	1	Concrete lining
T.A. 6-9/10R	1,647.0	58.4	164	82	1	Concrete lining
T.A. 6-10R	1,647.0	58.5	164	82	2	Earth canal
T.A. 6-10/11R	1,647.0	58.9	165	82	1	Earth canal
Sub-total	(24,448.5)	(855.2)			(20)	
Block 5A						
T.A. 7-0L	1,714.5	37.3	104	52	1	Earth canal
T.A. 7-1L	1,714.5	49.6	139	69	1	Earth canal
T.A. 7-1/2L	1,714.5	50.2	141	70	1	Concrete lining
T.A. 7-2L	1,714.5	53.6	150	75	1	Earth canal
T.A. 7-2/3L	1,714.5	53.2	149	74	1	Concrete lining
T.A. 7-3L	1,714.5	54.8	153	77	1	Earth canal

(6/7)

Table II-8 (7/7) List of Irrigation Canal (Sungai Manik Scheme)

NAME OF CANAL	CANAL LENGTH (m)	COMMAND AREA (ha)	Qp (lit/sec)	Qn (lit/sec)	NUMBER OF STRUCTURE (nos.)	Remarks
T.A. 7-3/4 L	1,714.5	52.8	148	74	1	Concrete lining
T.A. 7-1R	1,458.0	61.6	172	86	3	Earth canal
T.A. 7-1/2R	1,363.5	54.5	153	76	1	Concrete lining
T.A. 7-2R	1,282.5	45.4	127	64	1	Earth canal
T.A. 7-2/3R	1,215.0	41.3	116	58	3	Concrete lining
T.A. 7-3R	1,174.5	40.2	113	56	1	Earth canal
T.A. 7-3/4R	1,080.0	36.7	103	51	2	Concrete lining
Sub-total	(19,575.0)	(631.2)			(18)	
Block 5B						
T.A. 7-4L	1,674.0	51.3	144	72	1	Earth canal
T.A. 7-4/5L	1,674.0	55.9	157	78	2	Concrete lining
T.A. 7-5L	1,674.0	59.2	166	83	2	Earth canal
T.A. 7-5R	1,174.5	29.3	82	41	2	Concrete lining
T.A. 7-5/6L	1,323.0	41.5	116	58	1	Concrete lining
T.A. 7-6L	1,445.5	51.1	143	72	1	Earth canal
T.A. 7-6/7L	1,805.0	44.2	124	62	2	Concrete lining
T.A. 7-7L	1,687.5	9.9	28	14	3	Earth canal
T.A. 7-7LA	1,174.5	28.5	80	40	1	Concrete lining
T.A. 7-8L	837.0	28.5	80	40	2	Earth canal
T.A. 7-4R	985.5	34.8	97	49	1	Earth canal
T.A. 7-4/5R	1,080.0	39.2	110	55	2	Concrete lining
Sub-total	(16,534.5)	(473.4)	(1,326)	(663)	(20)	
Total (Labu Kubong)	84,304.5	2,715.9			81.0	
Total (Tertiary)	186,516.3	6,317.4			233.0	

Table II-9 (1/4) List of Drain (Sungai Manik Scheme)

(1/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
Block 1A			
T.A. 2-0L	1,188.0	7.5	53
T.A. 2-2L	1,053.0	36.9	258
T.A. 2-3L	1,026.0	35.9	251
T.A. 2-4L	1,134.0	41.0	287
T.A. 2-5L	1,188.0	42.2	295
T.A. 2-6L	1,174.5	42.0	294
T.A. 2-7L	1,161.0	41.5	291
T.A. 2-8L	1,147.5	34.6	242
T.A. 2-9L	1,714.5		0
T.A. 2-0R	702.0	21.9	153
T.A. 2-1R	810.0	23.3	163
T.A. 2-2R	931.5	27.6	193
T.A. 2-3R	945.0	33.2	232
T.A. 2-4R	945.0	34.1	239
T.A. 2-5R	945.0	32.8	230
T.A. 2-6R	945.0	33.5	235
T.A. 2-7R	945.0	32.6	228
T.A. 2-8 R/2	310.5		0
Total	18,265.5	520.6	
Block 1B			
T.A. 1-2L	1,188.0	42.2	295
T.A. 1-3L	1,323.0	49.0	343
T.A. 1-4L	1,485.0	53.0	371
T.A. 1-5L	1,566.0	57.5	403
T.A. 1-6L	1,566.0	57.9	405
T.A. 1-7L	1,552.5	49.5	347
T.A. 1-8L	1,552.5	58.0	406
T.A. 1-9L	1,539.0	58.0	406
T.A. 1-10L	1,525.5	58.0	406
T.A. 1-11L	1,512.0	58.0	406
T.A. 1-12L	1,512.0	58.8	412
T.A. 1-13L	0.0	44.1	309
Total	16,321.5	644.0	
Block 2			
T.A. 1-1R	1,755.0	79.9	559
T.A. 1-2R	1,822.5	54.6	382
T.A. 1-4R	1,768.5	65.7	460
T.A. 1-5R	1,849.5	68.6	480
T.A. 1-6R	2,025.0	74.0	518
T.A. 1-7R	2,173.5	80.2	561
T.A. 1-8R	2,308.5	84.9	594
T.A. 1-9R	2,308.5	85.9	601
T.A. 1-10R	2,322.0	86.3	604
T.A. 1-11R	2,322.0	77.2	540
T.A. 1-12R	2,362.5	87.4	612
T.A. 1-13R	2,538.0	94.2	659
T.A. 1-14R	0.0	60.6	424
Total	25,555.5	999.5	
Block 3A			
T.A. 3A-1R	850.5	40.8	286

Table II-9 (2/4) List of Drain (Sungai Manik Scheme)

(2/4)

Name of Drainage Canal	Length (m)	Drinage Area (ha)	Discharge (lit/sec)
T.A. 3A-1R-1	850.5	18.5	130
T.A. 3A-2R	1,174.5	48.4	339
T.A. 3A-3R	1,120.5	43.1	302
T.A. 3A-4R	1,107.0	43.9	307
T.A. 3A-5R	1,161.0	42.3	296
T.A. 3A-6R	1,120.5	39.3	275
T.A. 3A-7R	1,296.0	43.1	302
T.A. 3A-8R	1,633.5	47.8	335
T.A. 3B-1R	810.0	21.2	148
T.A. 3B-1R/1	945.0	28.2	197
T.A. 3B-2R	810.0	26.3	184
T.A. 3B-2R/1	742.5	24.4	171
T.A. 3B-3R	769.5	22.4	157
T.A. 3B-3R/1	742.5	20.1	141
T.A. 3B-4R	607.5	20.1	141
T.A. 3B-4R/1	567.0	22.1	155
T.A. 3B-5R	1,093.5	43.1	302
T.A. 3B-1L	0.0	13.0	91
T.A. 4-1R	1,485.0		
T.A. 4-2R	0.0		
Total	18,886.5	608.1	
Block 3B			
T.A. 5-1R	378.0	7.3	51
T.A. 5-2R	243.0	11.2	78
T.A. 5-3R	567.0	13.4	94
T.A. 5-4R	1,161.0	30.0	210
T.A. 5-5R	1,660.5	49.7	348
T.A. 5-6R	1,822.5	65.1	456
T.A. 5-7R	2,295.0	70.9	496
T.A. 5-8R	2,497.5	95.8	671
T.A. 5-1L	837.0	17.8	125
T.A. 5-2L	999.0	31.2	218
T.A. 5-3L	1,201.5	38.7	271
T.A. 5-4L	1,363.5	42.8	300
T.A. 5-5L	1,390.5	52.6	368
T.A. 5-6L	1,471.5	52.7	369
T.A. 5-7L	0.0	39.5	277
Total	17,887.5	618.7	
Block 4A			
T.A. 6-1L	1,188.0	36.8	258
T.A. 6-1/2L	1,323.0	32.9	230
T.A. 6-2L	1,471.5	43.7	306
T.A. 6-2/3L	1,309.5	45.7	320
T.A. 6-3L	1,120.5	42.3	296
T.A. 6-3/4L	918.0	31.1	218
T.A. 6-4L	742.5	29.1	204
T.A. 6-4/5L	769.5	23.7	166
T.A. 6-5L	864.0	26.9	188
T.A. 6-5/6L	864.0	28.3	198
T.A. 6-2R	1,633.5	49.9	349
T.A. 6-2/3R	1,633.5	58.4	409
T.A. 6-3R	1,633.5	56.5	396
T.A. 6-3/4R	1,633.5	57.3	401
T.A. 6-4R	1,633.5	51.5	361

Table II-9 (3/4) List of Drain (Sungai Manik Scheme)

(3/4)

Name of Drainage Canal	Length (m)	Drinage Area (ha)	Discharge (lit/sec)
T.A. 6-4/5R	1,647.0	50.4	353
T.A. 6-5R	1,660.5	43.8	307
T.A. 6-5/6R	1,660.5	48.0	336
Total	23,706.0	756.3	
Block 4B			
T.A. 6-6L	2,497.5	24.6	172
T.A. 6-6/7L	2,227.5	79.4	556
T.A. 6-7L	1,984.5	53.8	377
T.A. 6-7/8L	1,728.0	39.9	279
T.A. 6-8L	1,485.0	57.0	399
T.A. 6-8/9L	1,282.5	49.5	347
T.A. 6-9L	810.0	39.6	277
T.A. 6-10L	567.0	62.8	440
T.A. 6-11/12R	0.0	39.8	279
T.A. 6-7/8R	1,782.0	57.9	405
T.A. 6-8R	1,782.0	58.0	406
T.A. 6-8/9R	1,782.0	59.8	419
T.A. 6-9R	1,687.5	57.3	401
T.A. 6-9/10R	1,687.5	58.4	409
T.A. 6-10R	1,687.5	58.5	410
T.A. 6-10/11R	1,890.0	58.9	412
Total	24,880.5	855.2	
Block 5A			
T.A. 7-0L	1,795.5	37.3	261
T.A. 7-1L	1,782.0	49.6	347
T.A. 7-1/2L	1,782.0	50.2	351
T.A. 7-2L	1,782.0	53.6	375
T.A. 7-2/3L	1,768.5	53.2	372
T.A. 7-3L	1,768.5	54.8	384
T.A. 7-3/4 L	1,768.5	52.8	370
T.A. 7-1R	1,390.5	61.6	431
T.A. 7-1/2R	1,323.0	54.5	382
T.A. 7-2R	1,255.5	45.4	318
T.A. 7-2/3R	1,188.0	41.3	289
T.A. 7-3R	1,120.5	40.2	281
T.A. 7-3/4R	1,012.5	36.7	257
Total	19,737.0	631.2	
Block 5B			
T.A. 7-4L	1,768.5	51.3	359
T.A. 7-4/5L	1,768.5	55.9	391
T.A. 7-5L	1,768.5	59.2	414
T.A. 7-5R	1,390.5	29.3	205
T.A. 7-5/6L	1,458.0	41.5	291
T.A. 7-6L	1,593.0	51.1	358

Table II-9 (4/4) List of Drain (Sungai Manik Scheme)

(4/4)

Name of Drainage Canal	Length (m)	Drainage Area (ha)	Discharge (lit/sec)
T.A. 7-6/7L	1,701.0	41.2	309
T.A. 7-7L	1,201.5	9.9	69
T.A. 7-7LA	891.0	28.5	200
T.A. 7-8L	0.0	28.5	200
T.A. 7-4R	1,120.5	34.8	244
T.A. 7-4/5R	1,282.5	39.2	274
Total	15,943.5	473.4	
Main Drain			
Sg. Manik Main Drain	5,130.0		
Kerawai Drain	4,050.0		
Kroh Drain	9,139.5		
Sg. Batang Padang	7,965.0		
Sg. Tukan Sidni	3,213.0		
Parit Air Deras	4,833.0		
Parit Besar Keliling	9,463.5		
Parit Besar Labu Kubong	7,762.5		
Parit Besar	9,315.0		
	60,871.5		

Table II - 10 General Features of Irrigation and Drainage (Seberang Perak Scheme)

Description	Features	Remarks
1. Number and Name of Sub-Scheme	2 sub-schemes - Left Branch Canal Sub-Scheme - Right Branch Canal Sub-Scheme	
2. Number and Name of Irrigation Block - Left Branch Canal Sub-Scheme - Right Branch Canal Sub-Scheme	7 blocks 4 blocks (Block A, B, C, D) 3 blocks (Block E, F, G)	
3. Net Irrigation Area	8,708 ha	
- Left Branch Canal Sub-Scheme	4,365 ha	
Block-A	881 ha	
Block-B	634 ha	
Block-C	1,692 ha	
Block-D	1,158 ha	
- Right Branch Canal Sub-Scheme	4,343 ha	
Block-E	1,528 ha	
Block-F	1,384 ha	
Block-G	1,431 ha	
4. Water Source	Sungai Perak	
5. Intake Method	Gravity Free Intake Type (Telok Sena Intake)	
6. Designed Intake Discharge	17.3 m ³ /sec	
7. Unit Field Water Requirement	2.40 l/sec/ha at peak	
8. Irrigation Facilities		
Telok Sena Intake	Intake gate : 1.50 m x 2.00m x 6 nos.	Manual driving, Steel slide gate
Main canal	8.4 km	Sediment in canal
Left branch canal	22.3 km	
Right branch canal	29.6 km	
Secondary canal	65.9 km	Concrete lining 53.8 km
Tertiary canal	188.6 km	Concrete lining 119.5 km
Related structures	3,075 nos.	
9. Drainage Facilities (including Block II)		
Main & secondary drains	63 km	
Tertiary drain	314 km	
Drainage control gate (tidal gate)	9 nos.	
10. Farm Road	432 km	3.65 width with laterite surfacing