

*APPENDIX II*

*QUESTIONNAIRE I & II*



No.	QUESTION	ANSWER																																																																																																									
	State																																																																																																										
	Related agency (DID, DOA, ....., etc.)																																																																																																										
	Answerer's name and designation																																																																																																										
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	3. Location →	District <input type="text"/> Mukim <input type="text"/> Kampung <input type="text"/>																																																																																																									
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	6. Which kind of area does the project area belong to ?	<input type="checkbox"/> granary area <input type="checkbox"/> non-granary area <input type="checkbox"/> rainfed paddy area <input type="checkbox"/> upland area (small holder) <input type="checkbox"/> plantation (large scale)																																																																																																									
	7. Is there any water shortage at present or anticipated shortage in future for the following purposes? 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No.	QUESTION	ANSWER
<b>Meteorology</b>		
1.	Nearest meteorological station →	[ ]
2.	Administration of meteorological station →	<input type="checkbox"/> Malaysia Meteorological Service <input type="checkbox"/> JPS <input type="checkbox"/> Others [ ]
3.	Observed data / duration →	<input type="checkbox"/> temperature (19 - 19 ) <input type="checkbox"/> relative humidity (19 - 19 ) <input type="checkbox"/> wind speed (19 - 19 ) <input type="checkbox"/> sunshine (19 - 19 ) <input type="checkbox"/> evaporation (19 - 19 )
4.	Please specify the period of ; main season → off season → dry season →	from [ ] to [ ] from [ ] to [ ] from [ ] to [ ]
5.	Which is the wettest month ? →	[ ]
6.	Which is the driest month ? →	[ ]
<b>Hydrology</b>		
7.	Nearest rainfall station (Station Number)	[ ]
8.	Administration of rainfall station	<input type="checkbox"/> Malaysia Meteorological Service <input type="checkbox"/> JPS <input type="checkbox"/> Others [ ]
9.	Observed data / duration	<input type="checkbox"/> monthly rainfall (19 - 19 ) <input type="checkbox"/> daily rainfall (19 - 19 ) <input type="checkbox"/> hourly rainfall (19 - 19 )
10.	Nearest streamflow measurement and/or river gauge station and its duration of observation (Station Number)	[ ] / JPS / others <input type="checkbox"/> stream flow (19 - 19 ) <input type="checkbox"/> river gauge (19 - 19 )
11.	Mean annual rainfall in/around the area (MAR)	[ ] mm
12.	Rainfall in main season in the MAR	[ ] mm
13.	Rainfall in off season in the MAR	[ ] mm
14.	Please specify the year of flood/drought in recent years.	1989 ( flood / normal / drought ) 1990 ( flood / normal / drought ) 1991 ( flood / normal / drought ) 1992 ( flood / normal / drought ) 1993 ( flood / normal / drought )

Date :

Person in charge :



No.	QUESTION	ANSWER
15.	Which is the most serious flood year in the recent ?	<input type="text"/>
16.	Which is the most serious drought year in the recent ?	<input type="text"/>
17.	Catchment area at the <u>present</u> intake site	<input type="text"/> km <sup>2</sup>
18.	Is the source river perennial or seasonal ?	<input type="checkbox"/> perennial <input type="checkbox"/> seasonal
19.	Do you get water from rivers for granary or mini-granary areas ?	<input type="checkbox"/> yes (from : _____ ) <input type="checkbox"/> no
20.	How is the runoff characteristics of the source river ?	<input type="checkbox"/> rapid <input type="checkbox"/> not rapid
21.	How is the sediment load of the source rivers ?	<input type="checkbox"/> little <input type="checkbox"/> some <input type="checkbox"/> heavy
22.	How about the tendency of sediment condition?	<input type="checkbox"/> getting worse <input type="checkbox"/> same <input type="checkbox"/> others _____

Date :

Person in charge :



No.	QUESTION	ANSWER
	<p><b>1 GENERAL</b></p> <p>Existing irrigation facility : Construction period :  Construction cost including land acquisition cost and administration cost : Financial sources : Government : Beneficiary's own cost : Others, if any :  Executing Body / Agency of construction : Supervising Body / Agency of O &amp; M work : Land owner : Irrigation area : Water sources : Existing dam and storage reservoir for irrigation : Please provide a simple layout sketch of the project (A4 paper) <b>Main features of existing dam</b> Type of dam : Height of dam : Length of dam : Width of dam crest : Volume of dam : Effective storage capacity : Dead storage capacity : Off taking discharge for irrigation : Off taking method of irrigation water :  <b>Main features of existing irrigation facility</b> <b>In case of weir</b> Type of weir : Construction material of weir : Height of weir : Length of weir : Number of spill way : Total effective width of spillway : Design flood discharge : Return period of flood discharge : Type of intake gates : Number of intake gates : Height of intake gate : Width of intake gate : Measuring divices : Type of measuring divices : Type of main canal : Total length of main canal :</p>	<p>Yes or No Calendar month/year  RM ( ) in the year of ( ) RM ( ) RM ( ) RM ( )  ( ) ( ) (Government, Enterprise or Private) ( ) ha (River, Ground water, Rain water) Yes or No  ( ) ( ) m ( ) m ( ) m ( ) m<sup>3</sup> ( ) m<sup>3</sup> ( ) m<sup>3</sup> ( ) m<sup>3</sup>/sec (Weir, Free intake, Pumping up)    ( ) ( ) ( ) m ( ) m ( ) nos. ( ) m ( ) m<sup>3</sup>/sec ( ) years ( ) ( ) nos. ( ) m ( ) m Installed or No ( ) earth canal or lined canal with ( ) ( ) m</p>

Date :

Person in charge :





No.	QUESTION	ANSWER
	<b>In case of free intake</b>	
	Type of intake gates :	( )
	Number of intake gates :	( ) nos.
	Height of intake gate :	( ) m
	Width of intake gate :	( ) m
	Measuring devices :	Installed or No
	Type of measuring devices :	( )
	Type of main canal :	earth canal or lined canal with ( )
	Total length of main canal :	( ) m
	<b>In case of pumping up</b>	
	Type of pump :	( )
	Max. pump discharge :	( ) m <sup>3</sup> /sec
	Power supply system of pump :	(Electric power supply or Generator)
	Operation system :	(daily, seasonally or emergency case)
	<b>In case of daily operation</b>	
	Daily operation hour :	( ) hours/day
	Total operation hour for main season paddy :	( ) hours
	Annual operation and maintenance cost of pump & engine including replacement cost of spare-parts of pump & engine :	RM. ( )
	Measuring devices :	Installed or No
	Type of measuring devices :	( )
	Type of main canal :	earth canal or lined canal with ( )
	Total length of main canal :	( ) m
	Main features of drainage canal	
	Total length of tertiary drain :	( ) m
	Total length of main & secondary drain :	( ) m
	Recycle system of drain water to irrigation :	Yes or No
	Means of recycling of water :	Pumping up or ( )
	Frequency of recycling :	(Daily, Seasonally or Emergency)
	Relationship with other projects	
	Name and Type of other projects :	( )
	Relation with the project :	( )
	Aerial overlapping with other projects :	Yes ( ) ha or No
	Implementation stage of the other projects :	(MP, FS, DD, CS, O&M)
	Note; MP Master Plan FS Feasibility Study DD Detailed Design CS Tendering & Construction O&M Operation Management, and Maintenance	
2	<b>AVAILABLE DATA</b>	
	Topographic maps of the scheme area :	The largest scale (1 / )
	Relative study report on the Scheme :	Available or No

Date :

Person in charge :



No.	QUESTION	ANSWER
	<b>3 PRESENT CONDITION OF THE SCHEME</b>	
	Flood and Inundation (poor drainage)	
	Historical record for the 4 years	: 1990 1991 1992 1993
	Season of flood and inundation	: (Calendar months)
	Period of flood and inundation	: ( ) days / flood
	Reason of flood and inundation	: (Choking of river flow capacity, Insufficient height of river levee Others ( )
	Damage and affected properties by the latest flood irrigation area	: ( ) ha
	Irrigation and drainage facility	: ( ) ( ) ( )
	Road	: ( ) km
	Estimated Damage Cost	: RM ( )
	Water Shortage	
	Historical record for the 4 years	: 1990 cal. month ( ) ha 1991 cal. month ( ) ha 1992 cal. month ( ) ha 1993 cal. month ( ) ha
	Season of water shortage	: (Calendar month)
	Reason of water shortage	: ( )
	Affected properties by the latest water shortage crop and irrigation area	: (name of crops) ( ) ha
	domestic water supply	: ( ) houses
	others	: ( )
	Operation and Maintenance Works	
	Annual budget of O&M work in 1992	: RM ( )
	Staffing of O&M works	
	Supervising Engineer	: ( ) person
	Assistance Engineer	: ( ) person
	Technician	: ( ) person
	Daily labor	: ( ) person
	Operation system of O&M work	: (Sublet or Force account)
	Water charge (Irrigation services fee)	: RM ( ) / month or year
	Regional Water Management	
	Name of other projects which directly share the same water resources	: ( )
	Delivered amount of water for the scheme	: ( ) m <sup>3</sup> /year
	Sharing percentage against the total amount of water	: ( ) %
	Agreement and/or regulation on sharing of water use and water management	: Yes or No
	Any conflicts on water management with other agency	: ( )

Date :

Person in charge :



No.	QUESTION	ANSWER
	<p><b>4 PROPOSED SCHEME</b></p> <p>Proposed Main Features of the Scheme</p> <p><b>In case of mini dam and reservoirs (Type A)</b></p> <p>Estimated catchment area : ( ) km<sup>2</sup></p> <p>Designed height of dam : ( ) m</p> <p>Designed width of dam : ( ) m</p> <p>Designed width of dam crest : ( ) m</p> <p>Gradient of river bed around proposed mini dam site : (1 / )</p> <p>Shape of reservoir : (Slender/narrow, Round, Radial)</p> <p>Land use of the area to be submerged by the mini dam : ( ) ( ) ha</p> <p>Type of off take gates : ( )</p> <p>Size and number of off take gates : (H (m) x W (m) x Number (nos.))</p> <p>Type of spillway : ( )</p> <p>Size and number of spillway-gate : (H (m) x W (m) x Number (nos.))</p> <p>Estimated total storage capacity : ( ) m<sup>3</sup></p> <p>Estimated earth volume of dam : ( ) m<sup>3</sup></p> <p>Estimated concrete volume of spillway and other facilities : ( ) m<sup>3</sup></p> <p>Estimated flood discharge with a return period of 50 years : ( ) m<sup>3</sup> /sec</p> <p>Location of quarry sites : distance within ( ) km</p> <p>Type of rock and stone in quarry site : ( )</p> <p>Location of borrow pit sites : distance within ( ) km</p> <p>Type of borrow pit soils : ( )</p> <p>Designed length of access road : ( ) km</p> <p>Total length of head race/main canal : ( ) km</p> <p>Dimension of head race/main canal : (B (m) x H (m), inside slope)</p> <p>Type of head race/main canal : (earth canal or lined canal with ( ))</p> <p>Estimated earth work volume of canals and access road</p> <p>Excavation : ( ) m<sup>3</sup></p> <p>Embankment : ( ) m<sup>3</sup></p> <p>Estimated concrete works of structures : ( ) m<sup>3</sup></p> <p>Land acquisition area : ( ) ha</p> <p>Estimated Project cost</p> <p>Direct construction cost : RM ( )</p> <p>Land acquisition cost : RM ( )</p> <p>Expected water use : (irrigation, others ( ))</p> <p>Irrigation area : ( ) ha</p> <p>Expected cropping pattern : ( )</p> <p>Design discharge of head race/main canal : ( ) m<sup>3</sup> /sec</p> <p>Irrigation water requirement : ( ) lit/sec/ha</p>	

Date :

Person in charge :



No.	QUESTION	ANSWER
	<b>In case of heightening of existing band of reservoir (Type A)</b>	
	Estimated catchment area	: ( ) km <sup>2</sup>
	Height of existing dam	: ( ) m
	Width of existing dam	: ( ) m
	Width of existing dam crest	: ( ) m
	Heightening of dam	: ( ) m
	Total width of designed dam	: ( ) m
	Widening of dam crest	: ( ) m
	Land use of the area to be submerged by the heightening	: ( ) ( ) ha
	Necessity of modification of off take gate	: Yes or No
	Type of existing off take gates	: ( )
	Size and number of existing off take gates	: (H (m) x W (m) x Number (nos.))
	Type of modified off take gates	: ( )
	Size and number of modified off take gates	: (H (m) x W (m) x Number (nos.))
	Type of existing spillway	: ( )
	Size and number of existing spillway-gate	: (H (m) x W (m) x Number (nos.))
	Estimated total storage capacity of existing dam	: ( ) m <sup>3</sup>
	Expected total storage capacity by heightening	: ( ) m <sup>3</sup>
	Earth volume of existing dam	: ( ) m <sup>3</sup>
	Additional earth volume by heightening	: ( ) m <sup>3</sup>
	Estimated flood discharge with a return period of 50 years	: ( ) m <sup>3</sup> /sec
	Location of quarry sites	: distance within ( ) km
	Type of rock and stone in quarry site	: ( )
	Location of borrow pit sites	: distance within ( ) km
	Type of borrow pit soils	: ( )
	Length of existing head race/main canal	: ( ) km
	Dimension of existing head race/main canal	: (B (m) x H (m), inside slope)
	Type of existing head race/main canal	: (earth canal or lined canal with ( ))
	Land acquisition area	: ( ) ha
	Estimated Project cost	: RM ( )
	Direct construction cost	: RM ( )
	Land acquisition cost	: RM ( )
	Current use of reservoir water	: ( )
	Expected water use	: (irrigation, others ( ))
	Existing irrigation area	: ( ) ha
	Current cropping pattern	: ( )
	Increase of irrigation area	: ( ) ha
	Expected cropping pattern	: ( )
	Design discharge of main canal	: ( ) m <sup>3</sup> /sec
	Irrigation water requirement	: ( ) lit/sec

Date :

Person in charge :



No.	QUESTION	ANSWER
	<b>In case of heightening of existing weir (Type D)</b>	
	Type of existing weir	: ( )
	Height of existing weir	: ( ) m
	Width of existing weir	: ( ) m
	Width of existing weir crest	: ( ) m
	Heightening of weir	: ( ) m
	Total width of designed weir	: ( ) m
	Widening of weir crest	: ( ) m
	Estimated total storage capacity of existing weir	: ( ) m <sup>3</sup>
	Expected total storage capacity by heightening	: ( ) m <sup>3</sup>
	Land use of the area to be submerged by the heightening	: ( ) ( ) ha
	Necessity of modification of off take gate	: Yes or No
	Type of existing off take gates	: ( )
	Size and number of existing off take gates	: (H (m) x W (m) x Number (nos.))
	Type of modified off take gates	: ( )
	Size and number of modified off take gates	: (H (m) x W (m) x Number (nos.))
	Type of existing spillway	: ( )
	Size and number of existing spillway-gate	: (H (m) x W (m) x Number (nos.))
	Additional embankment in upper stream side	: ( ) km
	Height range of embankment	: ( ) m - ( ) m
	Width of embankment	: ( ) m
	Estimated quantity of concrete work	: ( ) m <sup>3</sup>
	Estimated quantity of embankment for river levee	: ( ) m <sup>3</sup>
	Estimated flood discharge with a return period of 50 years	: ( ) m <sup>3</sup> /sec
	Location of borrow pit sites	: distance within ( ) km
	Type of borrow pit soils	: ( )
	Length of existing head race/main canal	: ( ) km
	Dimension of existing head race/main canal	: (B (m) x H (m), inside slope)
	Type of existing head race/main canal	: (earth canal or lined canal with ( ))
	Land acquisition area	: ( ) ha
	Estimated Project cost	
	Direct construction cost	: RM ( )
	Land acquisition cost	: RM ( )
	Current use of reservoir water	: ( )
	Expected water use	: (irrigation, others ( ))
	Existing irrigation area	: ( ) ha
	Current cropping pattern	: ( )
	Increased irrigation area	: ( ) ha
	Expected cropping pattern	: ( )
	Design discharge of main canal	: ( ) m <sup>3</sup> /sec
	Irrigation water requirement	: ( ) lit/sec/ha

Date :

Person in charge :

QII-10



No.	QUESTION	ANSWER
	<b>In case of excavation/dredging of existing pond, swamp, lake and old river course (Type B and Type C)</b>	
	Number of natural stream and drainage/waste canals flowing into reservoir	: ( ) nos.
	Estimated catchment area	: ( ) km <sup>2</sup>
	Reservoir area	: ( ) km <sup>2</sup>
	Type of soil in and around the existing pond, lake and old river course	: ( )
	Estimated total storage capacity of existing reservoir	: ( ) m <sup>3</sup>
	Depth of excavation/dredging	: ( ) m
	Expected total storage capacity by excavation/dredging	: ( ) m <sup>3</sup>
	Estimated quantity of excavated/dredging materials	: ( ) m <sup>3</sup>
	Treatment method and means of excavated/dredged materials	: Spoil bank near the reservoir, Disposal to the other area, others ( )
	Length of river training works	: ( ) km
	Dimension of new channel of river training	: (B (m) x H (m), inside slope, width of berm (m))
	Estimated quantity of excavation for new channel of river training	: ( ) m <sup>3</sup>
	Estimated quantity of embankment for new channel of river training	: ( ) m <sup>3</sup>
	Current use of reservoir water	: ( )
	Expected water use	: (irrigation, others ( ))
	Location of existing irrigation area	: distance within ( ) km
	Existing irrigation area	: ( ) ha
	Current cropping pattern	: ( )
	Length of existing head race/main canal	: ( ) km
	Dimension of existing head race/main canal	: (B (m) x H (m), inside slope)
	Type of existing head race/main canal	: (earth canal or lined canal with ( ))
	Designed water supply system for irrigation	: (Gravity or Pumping up)
	<b>In case of gravity system</b>	
	Type of the designed off take gates	: ( )
	Size and number of the designed off take gates	: (H (m) x W (m) x Number (nos.))
	<b>In case of pumping up system</b>	
	Type and Max.capacity of pump	: ( ) ( ) m <sup>3</sup> /sec
	Designed operation hour	: ( ) hrs/day
	Power supply system	: (electric power supply or generator)
	Type of existing spillway	: ( )
	Size and number of existing spillway-gate	: (H (m) x W (m) x Number (nos.))
	Length of additional head race/maincanal	: ( ) km
	Dimension of additional head race/main canal	: (B (m) x H (m), inside slope)
	Type of additional head race/main canal	: (earth canal or lined canal with ( ))

Date :

Person in charge :

QII-11



No.	QUESTION	ANSWER
	Estimated quantity of concrete work	: ( ) m <sup>3</sup>
	Estimated quantity of embankment for additional head race/main canal	: ( ) m <sup>3</sup>
	Estimated quantity of excavation for additional head race/main canal	: ( ) m <sup>3</sup>
	Land acquisition area	: ( ) ha
	Estimated Project cost	
	Direct construction cost	: RM ( )
	Land acquisition cost	: RM ( )
	Increase of irrigation area	: ( ) ha
	Expected cropping pattern	: ( )
	Design discharge of main canal	: ( ) m <sup>3</sup> /sec
	Irrigation water requirement	: ( ) lit/sec/ha
	Location of the nearest existing reservoir within 3 km	: distance of about ( ) km
	Type of the nearest reservoir	: (pond, lake, old river course, tin mining pond, others ( ))
	Water use of the nearest reservoir	: ( )
	Land use in the area between the nearest reservoir and the Scheme area	: Non irrigated area, ( ) ha Rainfed area ( ) ha Irrigated area, ( ) ha Plantation area, ( ) ha Housing area, ( ) ha Others, ( ) ha
	Difference of elevation of water level in both the reservoirs	: ( ) m
	Occurrence of brackish water intrusion into existing pond, lake, swamp and old river course	: Yes or No
	<b>In case of existing tin mining ponds (Type E)</b>	
	Number of natural stream and drainage/waste canals flowing into pond	: ( ) nos.
	Estimated catchment area	: ( ) km <sup>2</sup>
	Reservoir area	: ( ) km <sup>2</sup>
	Estimated total storage capacity of pond	: ( ) m <sup>3</sup>
	Current use of pond water	: ( )
	Location of existing irrigation area	: distance within ( ) km
	Existing irrigation area	: ( ) ha
	Current cropping pattern	: ( )
	Length of existing head race/main canal	: ( ) km
	Dimension of existing head race/main canal	: (B (m) x H (m), inside slope)
	Type of existing head race/main canal	: (earth canal or lined canal with ( ))
	Designed water supply system	: (Gravity or Pumping up)
	<b>In case of gravity system</b>	
	Type of the designed off take gates	: ( )
	Size and number of the designed off take gates	: (H (m) x W (m) x Number (nos.))

Date :

Person in charge :



No.	QUESTION	ANSWER
	<b>In case of pumping up system</b>	
	Type and Max.capacity of pump :	( ) ( ) m <sup>3</sup> /sec
	Designed operation hour :	( ) hrs/day
	Power supply system :	(electric power supply or generator)
	Total length of head race/main canal :	( ) km
	Dimension of head race/main canal :	(B (m) x H (m), inside slope)
	Type of head race/main canal :	(earth canal or lined canal with ( ))
	Estimated quantity of concrete work :	( ) m <sup>3</sup>
	Estimated quantity of embankment for additional head race/main canal :	( ) m <sup>3</sup>
	Estimated quantity of excavation for additional head race/main canal :	( ) m <sup>3</sup>
	Land acquisition area :	( ) ha
	Estimated Project cost	
	Direct construction cost :	RM ( )
	Land acquisition cost :	RM ( )
	Expected water use :	(irrigation, others ( ))
	Irrigation area :	( ) ha
	Expected cropping pattern :	( )
	Design discharge of main canal :	( ) m <sup>3</sup> /sec
	Irrigation water requirement :	( ) lit/sec/ha
	Location of the nearest existing reservoir within 3 km :	distance of about ( ) km
	Type of the nearest reservoir :	(pond, lake, old river course, tin mining pond, others ( ))
	Water use of the nearest reservoir :	( )
	Land use in the area between the nearest reservoir and the Scheme area :	Non irrigated area, ( ) ha Rainfed area ( ) ha Irrigated area, ( ) ha Plantation area, ( ) ha Housing area, ( ) ha Others, ( ) ha
	Deference of elevation of water level in both the reservoirs :	( ) m

Date :

Person in charge :





No.	QUESTION	ANSWER
	Existing topographic map →	<input type="checkbox"/> nothing <input type="checkbox"/> 1 inch to 1 mile map <input type="checkbox"/> 1 to 50,000 map <input type="checkbox"/> aerial photograph scale : _____ <input type="checkbox"/> others scale : _____
	Geologic condition in the scheme area →	<input type="checkbox"/> unknown <input type="checkbox"/> rocks <input type="checkbox"/> gravel <input type="checkbox"/> sand <input type="checkbox"/> silt <input type="checkbox"/> clay <input type="checkbox"/> peat <input type="checkbox"/> others _____
	Existing geological data in the vicinity →	<input type="checkbox"/> nothing <input type="checkbox"/> geological survey report <input type="checkbox"/> geological map or profile <input type="checkbox"/> drilling log <input type="checkbox"/> geophysical data <input type="checkbox"/> others _____
	Damage in the vicinity. →	<input type="checkbox"/> nothing <input type="checkbox"/> subsidence <input type="checkbox"/> landslide <input type="checkbox"/> slope failure or soil erosion <input type="checkbox"/> others _____
	Place of the damage →	<input type="checkbox"/> foundation of facilities <input type="checkbox"/> natural slope (gradient : _____ ) <input type="checkbox"/> cut slope (gradient : _____ ) <input type="checkbox"/> slope of embankment (gradient : _____ ) <input type="checkbox"/> others _____
	Scale of the damage →	width <input type="text"/> m height <input type="text"/> m
	Countermeasures against the damage →	<input type="checkbox"/> nothing <input type="checkbox"/> others <div style="border: 1px solid black; height: 100px; width: 100%;"></div>

Date :

Person in charge :



INTERVIEWER : \_\_\_\_\_ (POSITION : \_\_\_\_\_ )

ANSWERER : \_\_\_\_\_ (POSITION : \_\_\_\_\_ )

No.	QUESTION	ANSWER
<b>General</b>		
1.	Number of farmhouseholds →	<input type="text"/> nos.
2.	Acreage of paddy land →	<input type="text"/> ha
3.	Acreage of upland →	<input type="text"/> ha
4.	Acreage of fruits tree crops →	<input type="text"/> ha
5.*	Acreage of tree crops by farmer →	<input type="text"/> ha
6.	Soil texture →	<input type="checkbox"/> clay <input type="checkbox"/> silt <input type="checkbox"/> loam <input type="checkbox"/> peat <input type="checkbox"/> sand
7.*	Number of farm household under poverty line →	<input type="text"/> nos.

**Present Condition**

8. Total agricultural production in farmers' land area as of 1993 on crop area yield, and income/ha.

	Item of Production	Crop Area (ha)	Yield (kg/ha)	Per ha cost of production (RM)	Per ha gross income (RM)
a	Paddy (MU) 92/93				
b	Paddy (LM) 93				
* c	Tobacco				
* d	Chili				
* e	Vegetable ( )				
* f	Other crop ( )				
g	Banana				
h	Pineapple				
i	Papaya				
j	Star fruits				
k	Melon				
* l	Other fruits ( )				
m	Oil palm				
n	Rubber				
o	Cacao				
p	Coconuts				
q	Carp	fishponds ( )ha			
r	Tilapia	fishponds ( )ha			
* s	Other fish ( )	fishponds ( )ha			
t	Cattle	( ) heads	Pro.( )heads/yr.	per head	per head
u	Goat	( ) heads	Pro.( )heads/yr.	per head	per head
v	Poultry	( ) heads	Pro.( )heads/yr.	per head	per head
* w	Other livestock ( )	( ) heads	Pro.( )heads/yr.	per head	per head

Date :

Person in charge :



No.	QUESTION	ANSWER								
9.	Acreage of idle paddy land →	<input type="text"/> ha								
10.	Acreage of idle upland →	<input type="text"/> ha								
11.	Number of idle land owners →	<input type="text"/> nos.								
12.	Trend of numbers in farmhouseholds →	<input type="checkbox"/> increasing <input type="checkbox"/> same <input type="checkbox"/> decreasing								
13.	Percentage of farmers' successors →	<input type="checkbox"/> 100 % <input type="checkbox"/> 40 % <input type="checkbox"/> 80 % <input type="checkbox"/> 20 % <input type="checkbox"/> 60 % <input type="checkbox"/> none								
14.	Land use outside the Area →	<input type="checkbox"/> village <input type="checkbox"/> paddy field <input type="checkbox"/> oil palm <input type="checkbox"/> rubber <input type="checkbox"/> cocoa / coconuts <input type="checkbox"/> upland crop <input type="checkbox"/> grass land <input type="checkbox"/> forest <input type="checkbox"/> others								
15.	Existence of farmers organization → If yes, (a) How many numbers are registered now ? (b) How much is the total capital (Fund) ? (c) How much is the total deposit (Flow) ?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="text"/> nos. <input type="text"/> RM <input type="text"/> RM								
16.*	Existence of "Mini-estate" and its acreage If yes, (a) How many farmers participate? (b) What is actual problems ?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="text"/> nos. <input type="checkbox"/> water <input type="checkbox"/> labour <input type="checkbox"/> soil <input type="checkbox"/> management <input type="checkbox"/> farming technology <input type="checkbox"/> marketing <input type="checkbox"/> other (      )								
17.*	Existence of "Group-farming" and its acreage If yes, (a) How many farmers participate? (b) What is actual problems ?	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="text"/> nos. <input type="checkbox"/> water <input type="checkbox"/> labour <input type="checkbox"/> soil <input type="checkbox"/> management <input type="checkbox"/> farming technology <input type="checkbox"/> marketing <input type="checkbox"/> other (      )								
18.*	Main upland crop and season	<table border="1"> <thead> <tr> <th data-bbox="949 1803 1197 1848">Crop name</th> <th data-bbox="1197 1803 1412 1848">Planting month</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Crop name	Planting month						
Crop name	Planting month									

Date :

Person in charge :



No.	QUESTION	ANSWER								
	19. Main fruits trees and the season	<table border="1"> <thead> <tr> <th data-bbox="909 241 1181 302">Fruit name</th> <th data-bbox="1181 241 1420 302">Harvesting month</th> </tr> </thead> <tbody> <tr> <td data-bbox="909 302 1181 336"></td> <td data-bbox="1181 302 1420 336"></td> </tr> <tr> <td data-bbox="909 336 1181 369"></td> <td data-bbox="1181 336 1420 369"></td> </tr> <tr> <td data-bbox="909 369 1181 414"></td> <td data-bbox="1181 369 1420 414"></td> </tr> </tbody> </table>	Fruit name	Harvesting month						
Fruit name	Harvesting month									
	20. Paddy cultivation a. Name of variety b. Seeds supply c. Sowing month d. Percentage of direct sowing method e. Per ha fertilizer application f. Per ha cost of agro-chemicals g. Machinery use h. Standard size of one plot	MU: <input type="text"/> LM: <input type="text"/> <input type="checkbox"/> self-produced <input type="checkbox"/> other farmer <input type="checkbox"/> dealer <input type="checkbox"/> government MU: <input type="text"/> (beginning / middle / end) LM: <input type="text"/> (beginning / middle / end) <input type="checkbox"/> 100 % <input type="checkbox"/> 40 % <input type="checkbox"/> 80 % <input type="checkbox"/> 20 % <input type="checkbox"/> 60 % <input type="checkbox"/> none <input type="text"/> kg/ha <input type="text"/> RM / ha <input type="checkbox"/> land preparation <input type="checkbox"/> spray <input type="checkbox"/> harvesting <input type="checkbox"/> no use <input type="checkbox"/> 0.1 ha <input type="checkbox"/> 0.3 ha <input type="checkbox"/> 0.5 ha <input type="checkbox"/> 0.2 ha <input type="checkbox"/> 0.4 ha <input type="checkbox"/> over 0.6 ha								
	21. Average farm income per year per household	<input type="text"/> RM								
	22.* Average non-farm income per year per household	<input type="text"/> RM								
	<b>Farmers' intention on development plan</b>									
	23. Do the farmers' organizations have good intention for agricultural development? (Farmers can be organized or not). In case of 'yes', or 'uncertain', please reply:	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> uncertain								
	24. Proposed number of participant	<input type="text"/> nos.								
	25. Proposed acreage of the plan	<input type="text"/> ha								
	26. Proposed management system	<input type="checkbox"/> Individual management <input type="checkbox"/> Mini-estate system <input type="checkbox"/> Group farming system <input type="checkbox"/> Public management (State) <input type="checkbox"/> Private enterprise <input type="checkbox"/> Others (                    )								
	27. Propose income per year per farm household	<input type="text"/> RM /year/household								
	28. Proposed investment (production cost) per year per farm household	<input type="text"/> RM /year/household								

Date :

Person in charge :



No.

29. Component of development plan

(Mark the proposed item, then please estimate roughly at  
proposed acreage, proposed yield,  
cost/ha and income/ha)

		Proposed items of production	Proposed crop area (ha)	Proposed yield (kg/ha)	Proposed per ha cost of production (RM)	Proposed Per ha gross income (RM)
	a	Paddy (MU)				
	b	Paddy (LM)				
*	c	Tobacco				
*	d	Chili				
*	e	Vegetable ( )				
*	f	Other crop ( )				
	g	Banana				
	h	Pineapple				
	i	Papaya				
	j	Star fruits				
	k	Melon				
*	l	Other fruits ( )				
	m	Oil palm				
	n	Rubber				
	o	Cacao				
	p	Coconuts				
	q	Carp	fishponds ( )ha			
	r	Tilapia	fishponds ( )ha			
*	s	Other fish ( )	fishponds ( )ha			
	t	Cattle	( ) heads	Pro.( )heads/yr.	per head	per head
	u	Goat	( ) heads	Pro.( )heads/yr.	per head	per head
	v	Poultry	( ) heads	Pro.( )heads/yr.	per head	per head
*	w	Other livestock ( )	( ) heads	Pro.( )heads/yr.	per head	per head

Date :

Person in charge :



**F. ENVIRONMENT (PART- 1)**

Name of the State : \_\_\_\_\_  
 Name of the Project and Location : \_\_\_\_\_  
 Concerned Environmental Agency in the Area : \_\_\_\_\_  
 Name of the Person in charge : \_\_\_\_\_

**PRESENT ENVIRONMENTAL PROBLEMS**

**I. THE AREA AND ITS VICINITY**

F1. Is there any major environmental problems in the area and its vicinity ?  Yes  No

F2. If yes, What are the major environmental problems in the area and its vicinity ?  Yes  No

(i) Physiochemical  
(Change of Land use, Soil Erosion, Sedimentation, Water Quality etc.)  Yes  No

(ii) Biological  
(Change in Fauna, Flora and aquatic life)  Yes  No

(iii) Human  
(Health and safety, change in socioeconomic conditions, communal problems etc.)  Yes  No

(iv) If Yes to anyone of the above questions, please list all the problems in detail (eg. Water quality problem in a river, Flooding problem in a area or Conflict of interest between two parties in water use etc.)

(v) Were any Remedial Measures followed to solve or mitigate these problems ?  Yes  No  
(Resettlement for affected population, flood mitigation measures etc.)

(vi) If Yes, what are the remedial or mitigating measures followed ?

(vii) List any Monitoring facilities to measure the environmental problems (Water quality sampling etc.)

F3. List any environmentally sensitive areas in the area and its vicinity which may be affected by the project ( e.g : Historic or religious sites, existing protective forest reserves and parks etc.)

**II. SMALL RESERVOIR (Types A to D)**

F4. (i) Is there any small reservoir in this area (other than tin mining ponds)?  Yes  No

(ii) What is the type of the small reservoir ? (Type A - Dam on small river, B-Pond in lowland, swamp/idle land Type C- Abolished river, D - Upstream of present intake, O - Others) ? Type - \_\_\_\_\_

(iii) What is its usage ? (Irrigation, aquaculture, tourism, or all of these or no use etc.)

F5. (i) Do this type of small reservoirs have or cause any environmental problems ?  Yes  No

(ii) If Yes, please list the problems in detail (eg. Water quality problem etc.)

(iii) Remedial or Mitigating measures followed, if any

(iv) List any Monitoring facilities to measure the environmental problems (Water quality sampling etc.)

**III. TIN MINING PONDS (Type E)**

F6. (i) Is there any tin mining ponds in the area ?  Yes  No

(ii) If yes, What is its usage ? (Irrigation, aquaculture, tourism, or all of these or no use etc.)

F7. (i) Do these tin mining ponds have or cause any environmental problems ?  Yes  No

(ii) If Yes, please list the problems in detail (especially water quality problem)

(iii) Remedial or Mitigating measures followed, if any

(iv) Any Monitoring facilities to measure the environmental problems (Water quality sampling etc.)

F8. Any environmental strategy or procedure followed in implementing a project (EIA etc.)



**F. ENVIRONMENT (PART - 2)**

**QUESTIONNAIRE BASED ON PRESCRIBED ACTIVITIES OF ENVIRONMENTAL QUALITY ACT 1974  
(ENVIRONMENTAL IMPACT ASSESSMENT) ORDER 1987**

Name of the State : \_\_\_\_\_  
 Name of the Project and Location : \_\_\_\_\_  
 Concerned Environmental Agency in the Area : \_\_\_\_\_  
 Name of the Person in charge : \_\_\_\_\_

**F9. AGRICULTURE**

- (a) Land development schemes covering an area of 500 hectares or more to bring forest land into agricultural production. 

Yes	No
Yes	No
- (b) Agricultural programmes necessitating the resettlement of 100 families or more. 

Yes	No
Yes	No
- (c) Development of agricultural estates covering an area of 500 hectares or more involving changes in type of agricultural use. 

Yes	No
Yes	No

**F10. DRAINAGE AND IRRIGATION**

- (a) Construction of dams and man-made lakes and artificial enlargement of lakes with surface areas of 200 hectares or more 

Yes	No
Yes	No
- (b) Drainage of wetland, wildlife habitat or virgin forest covering an area of 100 hectares or more 

Yes	No
Yes	No
- (c) Irrigation schemes covering an area of 5,000 hectares or more 

Yes	No
Yes	No

**F11. LAND RECLAMATION**

Coastal reclamation involving an area of 50 hectares or more. 

Yes	No
Yes	No

**F12. FISHERIES**

Land based aquaculture projects accompanied by clearing of mangrove swamp forests covering an area of 50 hectares or more. 

Yes	No
Yes	No

**F13. FORESTRY**

- (a) Conversion of hill forest land to other land use covering an area of 50 hectares or more. 

Yes	No
Yes	No
- (b) Logging or conversion of forest land to other land use with the catchment area of reservoirs used for municipal water supply, irrigation or hydro power generation or in areas adjacent to state and national parks and national marine parks. 

Yes	No
Yes	No
- (c) Logging covering an area of 500 hectares or more. 

Yes	No
Yes	No
- (d) Conversion of mangrove swamps for industrial, housing or agricultural use covering an area of 50 hectares or more. 

Yes	No
Yes	No
- (e) Clearing of mangrove swamps on islands adjacent to national marine parks. 

Yes	No
Yes	No

**F14. RESORT AND RECREATIONAL DEVELOPMENT**

- (a) Development of tourist or recreational facilities in national parks. 

Yes	No
Yes	No
- (b) Development of tourist or recreational facilities on islands in surrounding waters 

Yes	No
Yes	No

**F15. WATER SUPPLY**

- (a) Construction of dams or impounding reservoirs covering an area of 200ha or more. 

Yes	No
Yes	No
- (b) Groundwater development for industrial, agricultural or urban water supply of greater than 4,500 cubic meters per day. 

Yes	No
Yes	No



**F. ENVIRONMENT (PART- 3)**

Name of the State : \_\_\_\_\_  
 Name of the Project and Location : \_\_\_\_\_  
 Concerned Environmental Agency of the Area: \_\_\_\_\_  
 Name of the Person in charge : \_\_\_\_\_

**PRELIMINARY ASSESSMENT MATRIX**

Please make an "x" mark in the appropriate type of small reservoir (pond) and choose from the following :

- 0 - No Impact
- 1 - Potentially significant adverse environmental impact for which a design solution has been identified
- 2 - Adverse environmental impact that is potentially significant but insufficient information has been obtained to make a reliable prediction (Significant Unknown Impact)
- 3 - Residual and significant adverse environmental impact (Significant Known but Unsolvable Impact)
- 4 - Significant environmental enhancement (Useful for environmental development)

ENVIRONMENTAL COMPONENTS	TYPE OF SMALL RESERVOIR (POND)					
	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	Others
<b>I. PHYSICOCHEMICAL</b>						
<b>F16. LAND</b>						
(i) Change of Land use (Devastation or desertification)						
(ii) Soil Erosion						
(iii) Soil Salinization						
(iv) Deterioration of soil fertility						
(v) Others						
<b>F17. SURFACE WATER</b>						
(i) Water Balance						
(ii) Flooding						
(iii) Soil sedimentation						
(iv) Water Quality						
(v) Drainage Pattern						
(vi) Change in Existing Use						
(vii) Others						
<b>F18. GROUNDWATER</b>						
(i) Change in groundwater hydrology						
(ii) Water Quality						
(iii) Change in Existing Use						
(iv) Others						
<b>F19. ATMOSPHERE</b>						
(i) Atmospheric pollution						
(ii) Others						
<b>F20. NOISE</b>						
(i) Noise Pollution						
(ii) Others						

Type A - Dam on small reservoir, Type B - Pond in lowland, swamp and idle land  
 Type C - Abolished river, Type D - Upstream of present intake, Type E - Tin mine pond or lake  
 Others - Any other type of small reservoir or other water resource development

Pl. Note : For the particular type of small reservoir in the area, the various project activities like land reclamation, canalisation etc. need to be considered for all stages of project development which include Site investigation, Site preparation and Project construction, Operation & Maintenance, Abandonment and Consequent activities



**PRELIMINARY ASSESSMENT MATRIX**

Please make an "x" mark in the appropriate type of small reservoir (pond) and choose from the following :

- 0 - No Impact
- 1 - Potentially significant adverse environmental impact for which a design solution has been identified
- 2 - Adverse environmental impact that is potentially significant but insufficient information has been obtained to make a reliable prediction (Significant Unknown Impact)
- 3 - Residual and significant adverse environmental impact (Significant Known but Unsolvable Impact)
- 4 - Significant environmental enhancement (Useful for environmental development)

ENVIRONMENTAL COMPONENTS	TYPE OF SMALL RESERVOIR (POND)					
	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E	Others
<b>II. BIOLOGICAL</b>						
<b>F21. SPECIES AND POPULATIONS</b>						
(i) Terrestrial Vegetation						
(ii) Terrestrial Wildlife						
(iii) Other Terrestrial Fauna						
(iv) Aquatic/Marine Flora						
(v) Fish						
(vi) Other Aquatic/Marine Fauna						
<b>F22. HABITATS AND COMMUNITIES</b>						
(i) Terrestrial Habitats						
(ii) Terrestrial Communities						
(iii) Aquatic, Estuarine, Marine Habitats						
(iv) Aquatic, Estuarine, Marine Communities						
(v) Others						
<b>III. HUMAN</b>						
<b>F23. HEALTH AND SAFETY</b>						
(i) Physical Safety						
(ii) Psychological Well-Being						
(iii) Outbreak of Diseases						
(iv) Others						
<b>F24. SOCIAL AND ECONOMIC</b>						
(i) Employment						
(ii) Housing						
(iii) Change in Way of Life						
(iv) Involuntary Settlement						
(v) Population Increase						
(vi) Others						
<b>F25. AESTHETIC AND CULTURAL</b>						
(i) Impacts on the Community						
(ii) Conflicts among communities						
(iii) Historic and Cultural Assets						
(iv) Others						

Type A - Dam on small reservoir, Type B - Pond in lowland, swamp and idle land  
Type C - Abolished river, Type D - Upstream of present intake, Type E - Tin mine pond or lake  
Others - Any other type of small reservoir or other water resource development

Pl. Note : For the particular type of small reservoir in the area, the various project activities like land reclamation, canalisation etc. need to be considered for all stages of project development which include Site investigation, Site preparation and Project construction, Operation & Maintenance, Abandonment and Consequent activities

*APPENDIX III*

*METEO-HYDROLOGICAL RESULTS OF  
QUESTIONNAIRE II SURVEY*

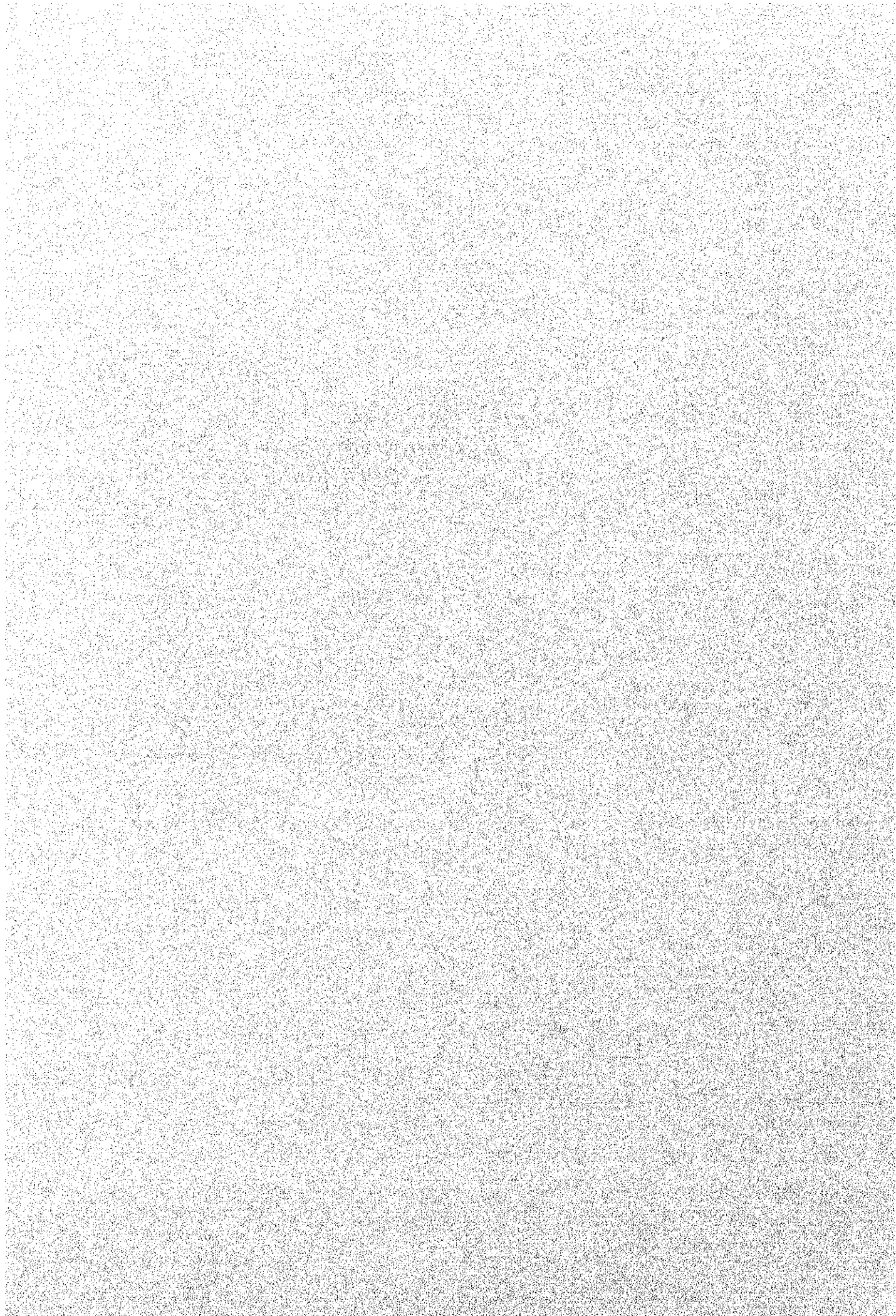


TABLE A.3.1 METEOROLOGICAL STATION (1/2)

Code No	Name of Project Area	District	Meteo Station	Administration	Observed Item	Starting year	Ending year
<b>PERLIS</b>							
PR 1	SIMPANG GETI	-	CHUPING	MMS	THWSE	1979	OG
PK 1	SIMPANG GETI	-	CHUPING	MMS	THWSE	1979	OG
PR 2	PANGGAS-SMALL DAM PROJECT	-	CHUPING	MMS	THWSE	1979	OG
PR 4	TASEK MELATI	-	CHUPING	MMS	THWSE	1979	OG
PR 5	PAYA KELUBI MANGO PROJECT	-	CHUPING	MMS	THWSE	1979	OG
PR 6	HUTAN LEMBAH MANGO PROJECT	-	CHUPING	MMS	THWSE	1979	OG
PR 7	TASEK MELATI II	-	CHUPING	MMS	THWSE	1979	OG
<b>KEDAH</b>							
KH 1	DURIAN PERAGIN	LANGKAWI	PULAU LANGKAWI AIRPORT	MMS	THWSE	1987	OG
KH 2	AIR HANGAT	LANGKAWI	PULAU LANGKAWI AIRPORT	MMS	THWSE	1987	OG
KH 3	AMPANGAN PDG SAGA	LANGKAWI	PULAU LANGKAWI AIRPORT	MMS	THWSE	1987	OG
KH 4	KAWASAN PADI KEDAWANG	LANGKAWI	PULAU LANGKAWI AIRPORT	MMS	THWSE	1987	OG
KH 5	KEDAWANG	LANGKAWI	PULAU LANGKAWI AIRPORT	MMS	THWSE	1987	OG
KH 6	P LIBALI BERKELOMPOK	KUBANG PASU	CHUPING	MMS	THWSE	1979	OG
KH 13	KG PDG GELANGGANG	PDG TERAP	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 14	SKIM JANING	PDG TERAP	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 15	LUBUK MERBAU	PDG TERAP	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 16	SEKIM TANDOP BESAR	PDG TERAP	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 19	KURONG HITAM IRRIGATION SCHEME	PDG TERAP	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 31	KUBUR PANJANG	PENDANG	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 32	KG KAYU TIGA	PENDANG	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 34	KG SAWA KECEK	PENDANG	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 35	BK PERAK	PENDANG	ALOR SETAR AIRPORT	MMS	THWSE	1946	OG
KH 40	SG AIR JERNIH	KUALA MUDA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
KH 41	SG BARU	KUALA MUDA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
KH 43	BENDANG DALAM	KUALA MUDA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
KH 48	KG BETONG - P DURIAN KELOMPOK	SIK	NA	NA	NA	NA	NA
KH 49	KG KUBANG YOH	SIK	NA	NA	NA	NA	NA
KH 50	KG SELAMAT - P SAYUR + BUAHAN	SIK	NA	NA	NA	NA	NA
<b>PULAU PINANG</b>							
PP 1	LUAR BAN PINANG TUNGGAL	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 2		S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 3	TOK BEDU IRRIGATION AREA	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 4	KG TOK BEDU, AIR MELINTAS, PMTG BERANG	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 6	SG JARAK IRRIGATION AREA	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 7	BK TOH ALLANG	S PERAI UTARA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 8	SG BURUNG	BARAT DAYA	PENANG AIRPORT	MMS	THWSE	1946	OG
PP 9	SG BURUNG	BARAT DAYA	PENANG AIRPORT	MMS	THWSE	1946	OG
PP 10	MAK SULONG	S PERAI TENGAH	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 11	SG KULIM IRRIGATION SCHEME	S PERAI TENGAH	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 12	SKIM PENGAIKIRAN SG KULIM	S PERAI TENGAH	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PP 13	SKIM PENGAIKIRAN TASEK SELATAN	S PERAI SELATAN	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
<b>PERAK</b>							
PK 1	KG TASEK	HULU PERAK	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 2	PUSAT PERT TANAH TINGGI BK BARING	HULU PERAK	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 3	INDUSTRI BUAH-BUAHAN	SELAMA	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PK 4	BENDANG TEMELONG	HULU PERAK	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 5	P KELOMPOK BUAH-BUAHAN	LARUT MATANG	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	LARUT MATANG	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PK 7	SENOUK CHANGKAT NING	LARUT MATANG	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	LARUT MATANG	BUTTERWORTH AIRPORT	MMS	THW	1985	OG
PK 9	BENDANG JENALIK	KUALA KANGSAR	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 10	BENDANG KG LANEH	KUALA KANGSAR	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 11	RANC TALIAIR BENDANG SENGGANG	KUALA KANGSAR	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 12	RANC TALIAIR BENDANG LEMPOR	KUALA KANGSAR	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 13	RANC TALIAIR PDG RENGAS	KUALA KANGSAR	IPOH AIRPORT	MMS	THWSE	1946	OG
PK 15	DENDANG A	MANJUNG	SITIAWAN	MMS	THWSE	1946	OG
PK 16	DENDANG B	MANJUNG	SITIAWAN	MMS	THWSE	1946	OG
PK 17	BRUAS & TAMBAHAN	MANJUNG	SITIAWAN	MMS	THWSE	1946	OG
PK 19	KG LALAT BATU 7	HILIR PERAK	SITIAWAN	MMS	THWSE	1946	OG
PK 20	SG BATANG PDG MATI	HILIR PERAK	SITIAWAN	MMS	THWSE	1946	OG
PK 21	SG MANIK, IRRIG SCHEME	HILIR PERAK	SITIAWAN	MMS	THWSE	1946	OG
<b>SELANGOR</b>							
SG 1	TEBUK BERRIHUN	SABAK BERNAM	SITIAWAN	MMS	THWSE	1946	OG
SG 3	SG JANG	HULU SELANGOR	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 4	BK TAMU	HULU SELANGOR	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 5	KG KALONG TENGAH	HULU SELANGOR	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 6	P SAYURAN SG YU	KUALA SELANGOR	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 8	KUANG	GOMBAK	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 9	REKREASI SG CHONGKAK	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 10	KG KANTAN	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 11	KG PASIR	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 12	MINANG KABAU	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 13	JLN ENAM KAKI I	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 14	SAPAN BT MINANGKABAU	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 15	SG JAI BK KEPONG	HULU LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 16	MARDI RESEARCH STATION	KELANG	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 18	TAMAN PERT MALAYSIA	PETALING	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 24	P KELOMPOK SAYURAN KG ENDAH	KUALA LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
SG 25	P KELOMPOK KONTAN KG KUNDANG	KUALA LANGAT	KUALA LUMPUR AIRPORT	MMS	THWSE	1948	OG
<b>NEGERI SEMBILAN</b>							
NS 1	STESAN MARDI JELEBU	JELEBU	TEMERLOH	MMS	THWSE	1978	OG
NS 2	BUAH-BUAHAN LANJUT MANIS	KUALA PILAH	MUADZAM SHAH	MMS	THWSE	1983	OG
NS 3	SRI MENANTI	KUALA PILAH	MUADZAM SHAH	MMS	THWSE	1983	OG
NS 4	PEMBANGUNAN SAWAH KG. LONDAH	GEMAS	MUADZAM SHAH	MMS	THWSE	1983	OG
NS 5	REMBAU	REMBAU	MALACCA AIRPORT	MMS	THWSE	1946	OG
NS 6	P TERNAKAN UDANG GALAH	KUALA PILAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
NS 7	KELOMPOK KG CHENGKAU ULU	REMBAU	MALACCA AIRPORT	MMS	THWSE	1946	OG
NS 8	KG BK TEMBOK & SG RAYA	PORT DICKSON	MUADZAM SHAH	MMS	THWSE	1983	OG

TABLE A.3.1 METEOROLOGICAL STATION (2/2)

Code No	Name of Project Area	District	Meteo Station	Administration	Observed Item	Starting year	Ending year
<b>MELAKA</b>							
MA 1	TEBONG	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 2	ULU SG BULOH	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 3	SOLOK BT ALANG	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 4	FELCRA RAMUAN CINA	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 5	MBIRIAM PATAH	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 6	SOLOK PUNGGAI	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 9	PDG KELADI	ALOR GAJAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 11	SG UDANG	MELAKA TENGAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 12	FELDA BK KATIL	MELAKA TENGAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 14	KANDANG	MELAKA TENGAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 15	SOLOK BK META	MELAKA TENGAH	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 16	FELCRA BK SEDANAN	JASIN	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 17	CINCIN LAKE	JASIN	MALACCA AIRPORT	MMS	THWSE	1946	OG
MA 18	KG PULAU SERKAM	JASIN	MALACCA AIRPORT	MMS	THWSE	1946	OG
<b>JOHOR</b>							
JR 3	SAWAH KEBUN BARU	MUAR	MALACCA AIRPORT	MMS	THWSE	1946	OG
JR 8	LDG KELOMPOK KG SRI TIMOR	KLUANG	KLUANG	MMS	THWSE	1973	OG
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENG	BATU PAHAT	KLUANG	MMS	THWSE	1973	OG
JR 10	LDG KELOMPOK KANGKAR MERLIMAU	BATU PAHAT	KLUANG	MMS	THWSE	1973	OG
JR 12	TUNOK LAUT	KOTA TINGGI	JOHORE BARU AIRPORT	MMS	THWSE	1974	OG
JR 14	SG CHEMARAN	KOTA TINGGI	JOHORE BARU AIRPORT	MMS	THWSE	1974	OG
<b>KELANTAN</b>							
KN 1	JUBAKAR PANTAI	TUMPAT	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 4	KG BELJAN	TUMPAT	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 5	LUBOK SELEHONG	TUMPAT	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 8	BENDANG JELUTONG, KOK LANAS	KOTA BHARU	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 9	BENDANG BT TINGGI, BK CHINA	KOTA BHARU	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 10	BENDANG SOKOR, BK CHINA	KOTA BHARU	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 11	KUBANG TEBAKANG	PASIR MAS	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 12	BENDANG TASEK BERANGAN	PASIR MAS	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 13	TASHK PUTERA	PASIR MAS	KOTA BHARU AIRPORT	MMS	THWSE	1948	OG
KN 16	BENDANG PMTG SUNKAI	PASIR PUTEH	KOTA BHARU	MMS	THWSE	1946	OG
KN 24	RANC TALAJIR HILIR SAT 1	MACHANG	KUALA KRAI	MMS	THWSE	1984	OG
KN 26	RANC PENGAI RAN TERASIL	TANAH MERAH	KUALA KRAI	MMS	THWSE	1984	OG
KN 27	RANC PANGAIRAN CUAL IPOH	TANAH MERAH	KUALA KRAI	MMS	THWSE	1984	OG
KN 35	RANC TALAJIR LEFAN AGOR	KUALA KRAI	KUALA KRAI	MMS	THWSE	1984	OG
<b>TERENGGANU</b>							
TR 1	TELABAK IRRIGATION SCHEME	BESUT	KUALA KRAI	MMS	THWSE	1984	OG
TR 3	SKIM TANAMAN PADI MARAS	KUALA TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 4	P KELOMPOK SAYURAN	KUALA TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 7	SALIRAN TOK JIRING	KUALA TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 12	P KELOMPOK SAYURAN	KUALA TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 14	P KELOMPOK SAYURAN	KUALA TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 20	SKIM TANAM PADI DURIAN HAJI	MARANG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 24	P KELOMPOK SAYURAN	MARANG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 28	P KELOMPOK SAYURAN	MARANG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 34	LEMBAH MARANG II	MARANG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 38	P KELOMPOK SAYURAN	MARANG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 42	P KELOMPOK SAYURAN	HULU TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 44	P KELOMPOK SAYURAN	HULU TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 45	P KELOMPOK SAYURAN	HULU TRG	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
TR 50	KOLAM ABANG	DUNGUN	KUALA TRG AIRPORT	MMS	THWSE	1946	OG
<b>PAHANG</b>							
PH 9	PAYA PAGAR SASAK	LIPIS	BATU EMBUN	MMS	THWSE	3964	OG
PH 11	P.WAU,BETONG & GEMAYAU	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 12	PAYA JELUTUNG	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 13	PAYA NYAK BESAR	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 14	PAYA TING & BESAR KERTAU	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 16	PAYA NYAK KECIL	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 17	PAYA PDG TENGGALA	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 19	PAYA SG LING	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 20	PAYA LANTING	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 23	PAYA PESAGI	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 24	PAYA KROT	MARAN	TEMERLOH	MMS	THWSE	3956	OG
PH 25	PAYA LDG	MARAN	TEMERLOH	MMS	THWSE	3956	OG

TABLE A.3.2 SEASONS (1/2)

Code/No	Name of Project Area	Main Season		Dry Season		Off Season		Wettest	Driest
		Start	End	Start	End	Start	End	Month	Month
<b>PERLIS</b>									
PR 1	SIMPANG GETI	AUG	DEC	-	-	JAN	JUL	SEP	JAN
PR 2	PANGGAS-SMALL DAM PROJECT	AUG	DEC	-	-	JAN	JUL	SEP	JAN
PR 4	TASEK MELATI	AUG	DEC	-	-	JAN	JUL	SEP	JAN
PR 5	PAYA KELUBI MANGO PROJECT	AUG	DEC	-	-	JAN	JUL	SEP	JAN
PR 6	HUTAN LEMBAH MANGO PROJECT	AUG	DEC	-	-	JAN	JUL	SEP	JAN
PR 7	TASEK MELATI II	AUG	DEC	-	-	JAN	JUL	SEP	JAN
<b>KEDAH</b>									
KH 1	DURIAN PERAGIN	NA	NA	NA	NA	NA	NA	SEP	JAN
KH 2	AIR HANGAT	NA	NA	NA	NA	NA	NA	SEP	JAN
KH 3	AMPANGAN PDG SAGA	JUL	DEC	-	-	DEC	MAR	SEP	JAN
KH 4	KAWASAN PADI KEDAWANG	JUL	DEC	-	-	DEC	MAR	SEP	JAN
KH 5	KEDAWANG	NA	NA	NA	NA	NA	NA	SEP	JAN
KH 6	PLIBALI BERKELOMPOK	-	-	-	-	-	-	OCT	JAN
KH 13	KG PDG GELANGGANG	AUG	FEB	MAR	JUL	JAN	MAC	SEP	JAN
KH 14	SKIM JANING	AUG	JAN	APR	AUG	-	-	SEP	JAN
KH 15	LUBUK MERBAU	AUG	JAN	FEB	SEP	-	-	OCT	JAN
KH 16	SEKIM TANDOP BESAR	AUG	JAN	FEB	SEP	-	-	SEP	JAN
KH 19	KURONG HITAM IRRIGATION SCHEME	SEP	FEB	MAR	AUG	AUG	FEB	SEP	JAN
KH 31	KUBUR PANJANG	JUL	DEC	JAN	JUN	JAN	MAR	OCT	JAN
KH 32	KG KAYU TIGA	JUL	DEC	JAN	MAY	JAN	APR	OCT	JAN
KH 34	KG SAWA KECIK	SEP	MAR	MAY	SEP	DEC	APR	OCT	JAN
KH 35	BK PERAK	JUL	DEC	JAN	MAY	JAN	APR	OCT	JAN
KH 40	SG AIR JERNIH	AUG	JAN	-	-	APR	AUG	SEP	JAN
KH 41	SG BARU	AUG	JAN	-	-	APR	AUG	SEP	JAN
KH 43	BENDANG DALAM	AUG	SEP	-	-	APR	JUL	SEP	JAN
KH 48	KG BETONG - P DURIAN KELOMPOK	NA	NA	NA	NA	NA	NA	NA	NA
KH 49	KG KUBANG YOI	NA	NA	NA	NA	NA	NA	NA	NA
KH 50	KG SELAMAT - P SAYUR + BUAHAN	NA	NA	NA	NA	NA	NA	NA	NA
<b>PULAU PINANG</b>									
PP 1	LUAR BAN PINANG TUNGGAL	SEP	FEB	MAR	JUL	-	-	SEP	JAN
PP 2		NA	NA	NA	NA	NA	NA	SEP	JAN
PP 3	TOK BEDU IRRIGATION AREA	SEP	FEB	MAR	JUL	-	-	SEP	JAN
PP 4	KG TOK BEDU, AIR MELINTAS, PMTG BERANGAN	NA	NA	NA	NA	NA	NA	SEP	JAN
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	SEP	FEB	MAR	JUL	-	-	OCT	JAN
PP 6	SG JARAK IRRIGATION AREA	SEP	FEB	MAR	JUL	-	-	SEP	JAN
PP 7	BK TOH ALLANG	NA	NA	NA	NA	NA	NA	SEP	JAN
PP 8	SG BURUNG	NA	NA	NA	NA	NA	NA	SEP	JAN
PP 9	SG BURUNG	AUG	DEC	MAR	JUL	JAN	MAR	OCT	JAN
PP 10	MAK SULONG	NA	NA	NA	NA	NA	NA	OCT	JAN
PP 11	SG KULIM IRRIGATION SCHEME	SEP	JAN	MAR	JUL	JAN	APR	OCT	JAN
PP 12	SKIM PENGAIRAN SG KULIM	NA	NA	NA	NA	NA	NA	OCT	JAN
PP 13	SKIM PENGAIRAN TASEK SELATAN	SEP	JAN	MAR	JUL	JAN	ARR	OCT	JAN
<b>PERAK</b>									
PK 1	KG TASEK	JAN	DEC	-	-	-	-	OCT	JAN
PK 2	PUSAT PERTANAHAN TINGGI BK BARING	JAN	DEC	-	-	-	-	OCT	JAN
PK 3	INDUSTRI BUAH-BUAHAN	-	-	-	-	-	-	OCT	JAN
PK 4	BENDANG TEMELONG	JULY	DEC	JAN	JUN	-	-	OCT	JAN
PK 5	P KELOMPOK BUAH-BUAHAN	OGOS	FEB	-	-	JAN	MAC	OCT	JAN
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	OGOS	FEB	MAC	JULY	-	-	OCT	JAN
PK 7	SENOUK CHANGKAT NING	OGOS	FEB	MAC	JULY	-	-	OCT	JAN
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	OGOS	FEB	MAC	JULY	-	-	OCT	JAN
PK 9	BENDANG JENALIK	JULY	DEC	JAN	JUN	-	-	OCT	JAN
PK 10	BENDANG KG LANEH	JULY	DEC	JAN	JUN	-	-	OCT	JAN
PK 11	RANC TALIAIR BENDANG SENGGANG	JULY	DEC	JAN	JUN	-	-	OCT	JAN
PK 12	RANC TALIAIR BENDANG LEMPOR	NA	NA	NA	NA	NA	NA	OCT	JAN
PK 13	RANC TALIAIR PDG RENGAS	NA	NA	NA	NA	NA	NA	OCT	JAN
PK 15	DENDANG A	NA	NA	NA	NA	NA	NA	OCT	JUN
PK 16	DENDANG B	NA	NA	NA	NA	NA	NA	OCT	JUN
PK 17	BRUAS & TAMBAHAN	NA	NA	NA	NA	NA	NA	OCT	JUN
PK 19	KG LALAT BATU 7	NA	NA	NA	NA	NA	NA	NOV	JUN
PK 20	SG BATANG PDG MATI	JAN	MAY	AUG	DEC	-	-	NOV	JUN
PK 21	SG MANIK, IRRIG SCHEME	JAN	MAY	AUG	DEC	-	-	NOV	JUN
<b>SELANGOR</b>									
SG 1	TEBUK BERIHUN	NA	NA	NA	NA	NA	NA	NOV	JUL
SG 3	SO JANG	SEP	NOV	APR	AUG	DEC	MAR	OCT	JAN
SG 4	BK TAMU	SEP	NOV	APR	AUG	DEC	MAR	OCT	JAN
SG 5	KG KALONG TENGAH	SEP	NOV	APR	AUG	DEC	MAR	OCT	JAN
SG 6	P SAYURAN SG YU	NA	NA	NA	NA	NA	NA	OCT	JUN
SG 8	KUANG	NA	NA	NA	NA	NA	NA	OCT	JUL
SG 9	REKREASI SG CHONGKAK	JAN	MAR	-	-	-	-	OCT	JAN
SG 10	KG KANTAN	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 11	KG PASIR	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 12	MINANG KABAU	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 13	JLN ENAM KAKI I	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 14	SAPAN BT MINANGKABAU	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 15	SG JAI BK KEPONG	NA	NA	NA	NA	NA	NA	NOV	JAN
SG 16	MARDI RESEARCH STATION	NA	NA	NA	NA	NA	NA	OCT	JUN
SG 18	TAMAN PERT MALAYSIA	NA	NA	NA	NA	NA	NA	OCT	JUN
SG 24	P KELOMPOK SAYURAN KG ENDAH	NA	NA	NA	NA	NA	NA	OCT	FEB
SG 25	P KELOMPOK KONTAN KG KUNDANG	NA	NA	NA	NA	NA	NA	OCT	FEB
<b>NEGERI SEMBILAN</b>									
NS 1	STESAN MARDI JELEBU	-	-	-	-	JAN	FEB	NOV	JUN
NS 2	BUAH-BUAHAN LANJUT MANIS	-	-	-	-	-	-	NOV	JUN
NS 3	SRI MENANTI	AUG	FEB	MAR	JULY	JUN	AUG	NOV	JAN
NS 4	PEMBANGUNAN SAWAH KO. LONDAH	-	-	-	-	-	-	NOV	JUN
NS 5	REMBAU	-	-	-	-	-	-	NOV	JAN
NS 6	P TERNAKAN UDANG GALAH	-	-	-	-	-	-	NOV	JAN
NS 7	KELOMPOK KO CHENGKAU ULU	-	-	-	-	-	-	SEP	FEB
NS 8	KO BK TEMBOK & SG RAYA	-	-	-	-	-	-	NOV	JAN

TABLE A.3.2 SEASONS (2/2)

CodeNo	Name of Project Area	Main Season		Dry Season		Off Season		Wettest	Driest
		Start	End	Start	End	Start	End	Month	Month
<b>MELAKA</b>									
MA 1	TEBONG	AUG	FEB	MAR	JUL	-	-	NOV	JAN
MA 2	ULU SG BULOH	AUG	FEB	MAR	JUL	-	-	NOV	JAN
MA 3	SOLOK BT ALANO	-	-	-	-	-	-	NOV	JAN
MA 4	FELCRA RAMUAN CINA	-	-	-	-	-	-	NOV	JAN
MA 5	MERIAM PATAH	-	-	-	-	-	-	NOV	JAN
MA 6	SOLOK PUNGGAI	-	-	-	-	-	-	NOV	JAN
MA 9	PDG KELADI	-	-	-	-	-	-	NOV	FEB
MA 11	SG UDANG	-	-	-	-	-	-	NOV	FEB
MA 12	FELDA BK KATIL	-	-	-	-	-	-	OCT	FEB
MA 14	KANDANG	AUG	FEB	MAR	JUL	-	-	OCT	FEB
MA 15	SOLOK BK META	AUG	FEB	MAR	JUL	-	-	OCT	FEB
MA 16	FELCRA BK SEDANAN	AUG	FEB	MAR	JUL	-	-	NOV	FEB
MA 17	CINCIN LAKE	-	-	-	-	-	-	NOV	JAN
MA 18	KG PULAU/SERKAM	-	-	-	-	-	-	OCT	FEB
<b>JOHOR</b>									
JR 3	SAWAH KEBUN BARU	NA	NA	NA	NA	NA	NA	NOV	FEB
JR 8	LDG KELOMPOK KG SRI TIMOR	NA	NA	NA	NA	NA	NA	DEC	FEB
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENO	NA	NA	NA	NA	NA	NA	NOV	FEB
JR 10	LDG KELOMPOK KANGKAR MERLIMAU	NA	NA	NA	NA	NA	NA	NOV	FEB
JR 12	TUNJOK LAUT	NA	NA	NA	NA	NA	NA	DEC	FEB
JR 14	SG CHEMARAN	NA	NA	NA	NA	NA	NA	DEC	FEB
<b>KELANTAN</b>									
KN 1	JUBAKAR PANTAI	AUG	FEB	MAR	JUL	NA	NA	NOV	FEB
KN 4	KG BELJAN	AUG	FEB	MAR	JUL	NA	NA	NOV	FEB
KN 5	LUBOK SELEHONG	AUG	FEB	MAR	JUL	NA	NA	NOV	FEB
KN 8	BENDANG JELUTONG, KOK LANAS	NOV	MAR	APR	OCT	NA	NA	DEC	FEB
KN 9	BENDANG BT TINGGI, BK CHINA	NOV	MAR	MAY	AUG	NA	NA	DEC	FEB
KN 10	BENDANG SOKOR, BK CHINA	NOV	MAR	NA	NA	APR	OCT	DEC	FEB
KN 11	KUBANG TEBAKANG	SEP	FEB	MAR	JUL	MAR	JUL	DEC	FEB
KN 12	BENDANG TASBK BERANGAN	NA	NA	NA	NA	NA	NA	DEC	FEB
KN 13	TASIK PUTERA	OCT	FEB	MAR	JUL	MAR	JUL	DEC	FEB
KN 16	BENDANG PMTG SUNKAI	SEP	MAR	APR	AUG	APR	AUG	DEC	FEB
KN 24	RANC TALIAIR HILIR SAT 1	JAN	APR	MAY	SEP	NA	NA	NOV	FEB
KN 26	RANC PENGAIRAN TERASIL	AUG	FEB	MAR	JUL	NA	NA	DEC	FEB
KN 27	RANC PANGAIRAN GUAL IPOH	AUG	FEB	MAR	JUL	NA	NA	DEC	FEB
KN 35	RANC TALIAIR LEPAN AGOR	SEP	FEB	MAR	AUG	NA	NA	DEC	MAR
<b>TERENGGANU</b>									
TR 1	TELABAK IRRIGATION SCHEME	AUG	FEB	MAR	JUL	-	-	NOV	MAR
TR 3	SKIM TANAMAN PADI MARAS	NOV	JAN	-	-	APR	OG	NOV	FEB
TR 4	P KELOMPOK SAYURAN	JAN	NOV	NOV	DEC	-	-	DEC	APR
TR 7	SALIRAN TOK IIRING	NOV	JAN	-	-	MAR	JUL	DEC	APR
TR 12	P KELOMPOK SAYURAN	JAN	DEC	-	-	-	-	NOV	APR
TR 14	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	NOV	APR
TR 20	SKIM TANAM PADI DURIAN HAJI	NOV	JAN	-	-	FEB	JUN	DEC	APR
TR 24	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	DEC	APR
TR 28	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	DEC	APR
TR 34	LEMBAH MARANG II	OCT	JAN	-	-	MAY	JUL	DEC	APR
TR 38	P KELOMPOK SAYURAN	JAN	NOV	NOV	JAN	-	-	NOV	FEB
TR 42	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	DEC	FEB
TR 44	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	DEC	FEB
TR 45	P KELOMPOK SAYURAN	FEB	NOV	NOV	FEB	-	-	DEC	APR
TR 50	KOLAM ABANG	NA	NA	NA	NA	NA	NA	DEC	FEB
<b>PAHANG</b>									
PH 9	PAYA PAGAR SASAK	AUG	FEB	MAR	JUL	-	-	DEC	FEB
PH 11	P.WAU,BETONG & GEMAYAH	AUG	FEB	MAR	JUL	-	-	DEC	FEB
PH 12	PAYA JELUTUNG	NA	NA	NA	NA	NA	NA	NOV	FEB
PH 13	PAYA NYAK BESAR	NA	NA	NA	NA	NA	NA	NOV	FEB
PH 14	PAYA TING & BESAR KERTAU	NA	NA	NA	NA	NA	NA	NOV	FEB
PH 16	PAYA NYAK KECIL	NA	NA	NA	NA	NA	NA	NOV	FEB
PH 17	PAYA PDG TENGGALA	NA	NA	NA	NA	NA	NA	NOV	FEB
PH 19	PAYA SG LING	AUG	FEB	MAR	JUL	-	-	NOV	FEB
PH 20	PAYA LANTING	AUG	FEB	MAR	JUL	-	-	NOV	FEB
PH 23	PAYA PESAGI	AUG	FEB	MAR	JUL	-	-	NOV	FEB
PH 24	PAYA KROT	AUG	FEB	MAR	JUL	-	-	NOV	FEB
PH 25	PAYA LDG	AUG	FEB	MAR	JUL	-	-	NOV	FEB

TABLE A.3.3 RAINFALL STATION (1/2)

Stn No	Name of Project Area	District	Rain Station	Administration	Observed Item	Starting year	Ending year	Annual	Monthly	
									Most	Least
<b>PERLIS</b>										
PR 1	SIMPANG GETI		6401002	JPS	monthly, daily, hourly	1974	on-going	1950	286	21
PR 2	PANGGAS-SMALL DAM PROJECT		6401002	JPS	monthly, daily, hourly	-	-	1950	286	21
PR 4	TASEK MELATI		6401002	JPS	monthly, daily, hourly	-	-	1950	286	21
PR 5	PAYA KELUBI MANGO PROJECT		6401002	JPS	monthly, daily, hourly	-	-	1950	286	21
PR 6	HUTAN LEMBAH MANGO PROJECT		6401002	JPS	monthly, daily, hourly	-	-	1830	247	16
PR 7	TASEK MELATI II		6401002	JPS	monthly, daily, hourly	-	-	1950	286	21
<b>KEDAH</b>										
KH 1	DURIAN PERAGIN	LANGKAWI	6397111	JPS	monthly, daily, hourly	NA	NA	2110	387	21
KH 2	AIR HANGAT	LANGKAWI	6397111	JPS	monthly, daily, hourly	NA	NA	2110	387	21
KH 3	AMPANGAN PDG SAGA	LANGKAWI	6397111	JPS	monthly, daily, hourly	-	-	2110	387	21
KH 4	KAWASAN PADI KEDAWANG	LANGKAWI	6397111	JPS	monthly, daily, hourly	-	-	2110	387	21
KH 5	KEDAWANG	LANGKAWI	6397111	JPS	monthly, daily, hourly	-	-	2110	387	21
KH 6	P LIBALI BERKELOMPOK	KUBANG PASU	6404001	JPS	monthly, daily	-	-	1920	272	18
KH 13	KG PDG GELANGGANG	PDG TERAP	6206035	JPS	monthly, daily, hourly	1946	1967	1680	273	22
KH 14	SKIM JANING	PDG TERAP	6206035	JPS	monthly, daily, hourly	-	-	1680	273	22
KH 15	LUBUK MERBAU	PDG TERAP	6207035	JPS	monthly, daily, hourly	-	-	2050	309	19
KH 16	SEKIM TANDOP BESAR	PDG TERAP	6206035	JPS	monthly, daily, hourly	-	-	1680	273	22
KH 19	KURONG HITAM IRRIGATION SCHEME	PDG TERAP	6206032	JPS	monthly, daily, hourly	-	-	1680	273	22
KH 31	KUBUR PANJANG	PENDANG	5904043	JPS	monthly, daily	-	-	2220	339	35
KH 32	KG KAYU TIGA	PENDANG	5904043	JPS	monthly, daily	-	-	2220	339	35
KH 34	KG SAWA KECIK	PENDANG	5904043	JPS	monthly, daily	-	-	2220	339	35
KH 35	BK PERAK	PENDANG	5904043	JPS	monthly, daily	-	-	2220	339	35
KH 40	SG AIR JERNIH	KUALA MUDA	5604002	JPS	monthly, daily	-	-	1990	315	39
KH 41	SG BARU	KUALA MUDA	5604002	JPS	monthly, daily	-	-	1990	315	39
KH 43	BENDANG DALAM	KUALA MUDA	5604002	JPS	monthly, daily	-	-	1990	315	39
KH 48	KG BETONG - P DURIAN KELOMPOK	SIK	NA	NA	NA	NA	NA	NA	NA	NA
KH 49	KG KUBANG YOI	SIK	NA	NA	NA	NA	NA	NA	NA	NA
KH 50	KG SELAMAT - P SAYUR + BUAHAN	SIK	NA	NA	NA	NA	NA	NA	NA	NA
<b>PULAU PINANG</b>										
PP 1	LUAR BAN PINANG TUNGGAL	S PERAI UTARA	5504035	JPS	monthly, daily, hourly	1947	on-going	1930	327	46
PP 2		S PERAI UTARA	5504035	JPS	monthly, daily, hourly	1947	on-going	1930	327	46
PP 3	TOK BEDU IRRIGATION AREA	S PERAI UTARA	5504035	JPS	monthly, daily, hourly	-	-	1930	327	46
PP 4	KG TOK BEDU, AIR MELINTAS, PMTO BERANG	S PERAI UTARA	5504035	JPS	monthly, daily, hourly	-	-	1930	327	46
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	S PERAI UTARA	5504035	JPS	monthly, daily, hourly	-	-	1930	327	46
PP 6	SG JARAK IRRIGATION AREA	S PERAI UTARA	5504035	JPS	monthly, daily, hourly	-	-	1930	327	46
PP 7	BK TOH ALLANG	S PERAI UTARA	5404043	JPS	monthly, daily	1950	on-going	2320	333	82
PP 8	SG BURUNG	BARAT DAYA	5302001	JPS	monthly, daily, hourly	-	-	2710	418	34
PP 9	SG BURUNG	BARAT DAYA	5302001	JPS	monthly, daily, hourly	-	-	2710	418	34
PP 10	MAK SULONG	S PERAI TENGAH	5404043	JPS	monthly, daily	1950	on-going	2320	333	82
PP 11	SG KULIM IRRIGATION SCHEME	S PERAI TENGAH	5404043	JPS	monthly, daily	1950	on-going	2320	333	82
PP 12	SKIM PENGAIRAN SG KULIM	S PERAI TENGAH	5404043	JPS	monthly, daily	-	-	2320	333	82
PP 13	SKIM PENGAIRAN TASEK SELATAN	S PERAI SELATAN	5204048	JPS	monthly, daily, hourly	-	-	2180	312	94
<b>PERAK</b>										
PK 1	KG TASEK	HULU PERAK	5710061	JPS	monthly, daily, hourly	-	-	1840	300	35
PK 2	PUSAT PERTANAH TINGGI BK BARING	HULU PERAK	5411066	JPS	monthly, daily, hourly	-	-	2400	440	30
PK 3	INDUSTRI BUAH-BUAHAN	SELAMA	5108005	JPS	monthly, daily	-	-	3020	424	138
PK 4	BENDANG TEMELONG	HULU PERAK	5109070	JPS	monthly, daily	-	-	1720	253	61
PK 5	P KELOMPOK BUAH-BUAHAN	LARUT MATANG	4908018	JPS	monthly, daily, hourly	-	-	3170	366	136
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	LARUT MATANG	4908018	JPS	monthly, daily, hourly	-	-	3170	366	136
PK 7	SENOKU CHANGKAT NING	LARUT MATANG	4707035	JPS	monthly, daily	-	-	3090	380	151
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	LARUT MATANG	4806032	JPS	monthly, daily	-	-	2290	310	112
PK 9	BENDANG JENALIK	KUALA KANGSA	4909073	JPS	monthly, daily	-	-	1800	263	70
PK 10	BENDANG KG LANEH	KUALA KANGSA	4708082	JPS	monthly, daily	-	-	2320	338	104
PK 11	RANC TALIAIR BENDANG SENGOANG	KUALA KANGSA	4708084	JPS	monthly, daily, hourly	-	-	1520	207	72
PK 12	RANC TALIAIR BENDANG LEMPOR	KUALA KANGSA	4708084	JPS	monthly, daily, hourly	-	-	1520	207	72
PK 13	RANC TALIAIR PDG RENGAS	KUALA KANGSA	4708084	JPS	monthly, daily, hourly	-	-	1520	207	72
PK 15	BENDANG A	MANJUNG	4407038	JPS	monthly, daily	-	-	2210	292	110
PK 16	BENDANG B	MANJUNG	4407038	JPS	monthly, daily	-	-	2210	292	110
PK 17	BRUAS & TAMBAHAN	MANJUNG	4407038	JPS	monthly, daily	1978	1980	2210	292	110
PK 19	KG LALAT BATU 7	HILIR PERAK	4010001	JPS	monthly, daily, hourly	1980	on-going	2340	300	97
PK 20	SG BATANG PDG MATI	HILIR PERAK	4010001	JPS	monthly, daily, hourly	-	-	2340	300	97
PK 21	SG MANIK IRRIG SCHEME	HILIR PERAK	4010001	JPS	monthly, daily, hourly	1962	on-going	2340	300	97
<b>SELANGOR</b>										
SG 1	TEBUK BERIHUN	SABAK BERNAM	3710006	JPS	monthly, daily, hourly	1933	on-going	1620	206	73
SG 3	SG JANG	HULU SELANGO	3416002	JPS	monthly, daily, hourly	-	-	2500	314	81
SG 4	BK TAMU	HULU SELANGO	3416002	JPS	monthly, daily, hourly	-	-	2500	314	81
SG 5	KG KALONO TENGAH	HULU SELANGO	3416002	JPS	monthly, daily, hourly	-	-	2500	314	81
SG 6	P SAYURAN SG YU	KUALA SELANGU	3411017	JPS	monthly, daily, hourly	1921	on-going	1590	200	73
SG 8	KUANG	GOMBAK	3315033	JPS	monthly, daily	1961	on-going	2420	275	114
SG 9	REKREASI SG CHONGKAK	HULU LANGAT	3218101	JPS	monthly, daily	-	-	2380	311	98
SG 10	KG KANTAN	HULU LANGAT	3118102	JPS	monthly, daily, hourly	-	-	2300	334	85
SG 11	KG PASIR	HULU LANGAT	2917001	JPS	monthly, daily, hourly	1975	on-going	2040	252	109
SG 12	MINANG KABAU	HULU LANGAT	2819001	JPS	monthly, daily	-	-	2300	300	102
SG 13	JLN ENAM KAKI I	HULU LANGAT	2819001	JPS	monthly, daily	-	-	2300	300	102
SG 14	SAPAN BT MINANGKABAU	HULU LANGAT	2819001	JPS	monthly, daily	-	-	2300	300	102
SG 15	SG JAI BK KEPONG	HULU LANGAT	2819001	JPS	monthly, daily	-	-	2300	300	102
SG 16	MARDI RESEARCH STATION	KELANG	2916001	JPS	monthly, daily	-	-	2040	219	83
SG 18	TAMAN PERT MALAYSIA	PETALING	3115079	JPS	monthly, daily	-	-	2310	259	112
SG 24	P KELOMPOK SAYURAN KG ENDAH	KUALA LANGAT	2615131	JPS	monthly, daily	-	-	2150	270	86
SG 25	P KELOMPOK KONTAN KG KUNDANG	KUALA LANGAT	2615131	JPS	monthly, daily	-	-	2150	270	86



TABLE A.3.3 RAINFALL STATION (2/2)

Stn No	Name of Project Area	District	Rain Station	Administration	Observed Item	Starting year	Ending year	Annual	Monthly	
									Most	Least
<b>NEGERI SEMBILAN</b>										
NS 1	STESAN MARDI JELEBU	JELEBU	2922018	JPS	monthly, daily	1947	on-going	1920	237	107
NS 2	BUAH-BUAHAN LANJUT MANIS	KUALA PILAH	2724076	JPS	monthly, daily	-	-	1830	238	93
NS 3	SRI MENANTI	KUALA PILAH	2620084	JPS	monthly, daily	-	-	2330	287	104
NS 4	PEMBANGUNAN SAWAH KG. LONDAH	GEMAS	2625048	JPS	monthly, daily	1947	on-going	1410	179	63
NS 5	REMBAU	REMBAU	2620048	JPS	monthly, daily	-	-	2330	287	104
NS 6	P TERNAKAN UDANG GALAH	KUALA PILAH	2521050	JPS	monthly, daily	-	-	2210	306	89
NS 7	KELOMPOK KG CHENGKAU ULU	REMBAU	2419054	JPS	monthly, daily	-	-	2070	234	86
NS 8	KG BK TEMBOK & SG RAYA	PORT DICKSON	2620048	JPS	monthly, daily	-	-	2330	287	104
<b>MELAKA</b>										
MA 1	TEBONG	ALOR GAJAH	2423001	JPS	monthly, daily	-	-	1690	194	82
MA 2	ULU SG BULOH	ALOR GAJAH	2421003	JPS	monthly, daily	-	-	2400	334	93
MA 3	SOLOK BT ALANG	ALOR GAJAH	2421003	JPS	monthly, daily	-	-	2400	334	93
MA 4	FELCRA RAMUAN CINA	ALOR GAJAH	2321006	JPS	monthly, daily, hourly	-	-	1780	276	71
MA 5	MERIAM PATAH	ALOR GAJAH	2320005	JPS	monthly, daily	-	-	1970	254	81
MA 6	SOLOK PUNGCAI	ALOR GAJAH	2321006	JPS	monthly, daily, hourly	-	-	1780	276	71
MA 9	PDG KELADI	ALOR GAJAH	2323007	JPS	monthly, daily	1963	on-going	1670	208	75
MA 11	SG UDANG	MELAKA TENGAH	2221008	JPS	monthly, daily	-	-	1980	241	69
MA 12	FELDA BK KATIL	MELAKA TENGAH	2124037	JPS	monthly, daily	-	-	2070	225	91
MA 14	KANDANG	MELAKA TENGAH	2124037	JPS	monthly, daily	1981	1983	2070	225	91
MA 15	SOLOK BK META	MELAKA TENGAH	2124037	JPS	monthly, daily	-	-	2070	225	91
MA 16	FELCRA BK SEDANAN	JASIN	2324032	JPS	monthly, daily	-	-	1730	212	90
MA 17	CINCIN LAKE	JASIN	2224038	JPS	monthly, daily, hourly	-	-	1650	208	69
MA 18	KG PULAU SERKAM	JASIN	2124037	JPS	monthly, daily	-	-	2070	225	91
<b>JOHOR</b>										
JR 3	SAWAH KEBUN BARU	MUAR	2225026	JPS	monthly, daily	-	-	1900	211	95
JR 8	LDG KELOMPOK KG SRI TIMOR	KLUANG	2235163	JPS	monthly, daily, hourly	1978	on-going	2640	508	117
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENG	BATU PAHAT	2130068	JPS	monthly, daily	-	-	2120	221	131
JR 10	LDG KELOMPOK KANGKAR MERLIMAU	BATU PAHAT	1929064	JPS	monthly, daily	-	-	2350	270	138
JR 12	TUNJOK LAUT	KOTA TINGGI	1839196	JPS	monthly, daily, hourly	1963	1973	2560	389	109
JR 14	SG CHEMARAN	KOTA TINGGI	1541139	JPS	monthly, daily, hourly	-	-	2480	423	85
<b>KELANTAN</b>										
KN 1	JUBAKAR PANTAI	TUMPAT	6121015	JPS	monthly, daily, hourly	-	-	2250	493	47
KN 4	KG BELJAN	TUMPAT	6121066	JPS	monthly, daily	-	-	2290	527	49
KN 5	LUBOK SELEHONG	TUMPAT	6121066	JPS	monthly, daily	-	-	2290	527	49
KN 8	BENDANG JELUTONG, KOK LANAS	KOTA BHARU	5922001	JPS	monthly, daily	-	-	2970	646	67
KN 9	BENDANG BT TINGGI, BK CHINA	KOTA BHARU	5922001	JPS	monthly, daily	-	-	2970	646	67
KN 10	BENDANG SOKOR, BK CHINA	KOTA BHARU	5922001	JPS	monthly, daily	-	-	2970	646	67
KN 11	KUBANG TEBAKANG	PASIR MAS	6021010	JPS	monthly, daily	-	-	2710	498	66
KN 12	BENDANG TASEK BERANGAN	PASIR MAS	5920011	JPS	monthly, daily	-	-	2970	536	63
KN 13	TASIK PUTERA	PASIR MAS	6021010	JPS	monthly, daily	-	-	2710	498	66
KN 16	BENDANG PMTG SUNKAL	PASIR PUTEH	5824079	JPS	monthly, daily, hourly	-	-	2740	592	58
KN 24	RANC TALAJAIR HILIR SAT 1	MACHANG	5722057	JPS	monthly, daily, hourly	-	-	2560	504	55
KN 25	RANC PENGAIRAN TERASIL	TANAH MERAH	5719001	JPS	monthly, daily, hourly	-	-	2840	505	94
KN 27	RANC PANGAIRAN GUAL IPOH	TANAH MERAH	5719001	JPS	monthly, daily, hourly	-	-	2840	505	94
KN 35	RANC TALAJAIR LEPAN AGOR	KUALA KRAI	5622048	JPS	monthly, daily	-	-	2660	563	97
<b>TERENGGANU</b>										
TR 1	TELABAK IRRIGATION SCHEME	BESUT	5524001	JPS	monthly, daily	NA	NA	2480	792	13
TR 3	SKIM TANAMAN PADI MARAS	KUALA TRG	5430049	JPS	monthly, daily, hourly	NA	NA	2400	563	66
TR 4	P KELOMPOK SAYURAN	KUALA TRG	5330046	JPS	monthly, daily	NA	NA	2890	671	85
TR 7	SALIRAN TOK JIRING	KUALA TRG	5330046	JPS	monthly, daily	NA	NA	2890	671	85
TR 12	P KELOMPOK SAYURAN	KUALA TRG	5230042	JPS	monthly, daily	NA	NA	2860	65702	96
TR 14	P KELOMPOK SAYURAN	KUALA TRG	5230042	JPS	monthly, daily	NA	NA	2860	657	96
TR 20	SKIM TANAM PADI DURIAN HAJI	MARANG	5131064	JPS	monthly, daily	NA	NA	2780	672	85
TR 24	P KELOMPOK SAYURAN	MARANG	5131064	JPS	monthly, daily	NA	NA	2780	672	85
TR 28	P KELOMPOK SAYURAN	MARANG	5131064	JPS	monthly, daily	NA	NA	2780	672	85
TR 34	LEMBAH MARANG II	MARANG	5131064	JPS	monthly, daily	NA	NA	2780	673	85
TR 38	P KELOMPOK SAYURAN	MARANG	5030069	JPS	monthly, daily, hourly	NA	NA	2520	591	86
TR 42	P KELOMPOK SAYURAN	HULU TRG	5129040	JPS	monthly, daily	NA	NA	3450	773	126
TR 44	P KELOMPOK SAYURAN	HULU TRG	5029034	JPS	monthly, daily, hourly	NA	NA	3380	833	118
TR 45	P KELOMPOK SAYURAN	HULU TRG	5030039	JPS	monthly, daily, hourly	NA	NA	3620	762	120
TR 50	KOLAM ABANG	DUNGUN	4834001	JPS	monthly, daily	NA	NA	2380	540	79
<b>PAHANG</b>										
PH 9	PAYA PAGAR SASAK	LIPIS	8640132	JPS	monthly, daily	-	-	3420	469	172
PH 11	P.WAU, BETONG & GEMAYAU	MARAN	7054184	JPS	monthly, daily	-	-	3860	557	156
PH 12	PAYA JELUTUNG	MARAN	6850174	JPS	monthly, daily	-	-	3960	477	212
PH 13	PAYA NYAK BESAR	MARAN	6850174	JPS	monthly, daily	-	-	3960	477	212
PH 14	PAYA TING & BESAR KERTAU	MARAN	6850174	JPS	monthly, daily	-	-	3960	477	212
PH 16	PAYA NYAK KECIL	MARAN	6850174	JPS	monthly, daily	-	-	3960	477	212
PH 17	PAYA PDG TENGGALA	MARAN	7246156	JPS	monthly, daily	-	-	4160	520	204
PH 19	PAYA SG LING	MARAN	7246156	JPS	monthly, daily	-	-	4160	477	212
PH 20	PAYA LANTING	MARAN	7246156	JPS	monthly, daily	-	-	4160	477	212
PH 23	PAYA PESAGI	MARAN	7246156	JPS	monthly, daily	-	-	4160	477	212
PH 24	PAYA KROT	MARAN	7246156	JPS	monthly, daily	-	-	4160	477	212
PH 25	PAYA LDG	MARAN	7246156	JPS	monthly, daily	-	-	4160	477	212

TABLE A.3.4 STREAMFLOW STATION (1/2)

Code No	Name of Project Area	District	Streamflow Station	Administration	Observed Item	Started year	Ended year
<b>PERLIS</b>			6502401	JPS	SG		
PR 1	SIMPANG GETI	-	6502401	JPS	SG	1974	OG
PR 2	PANGGAS-SMALL DAM PROJECT	-	-	-	-	-	-
PR 4	TASEK MELATI	-	-	-	-	-	-
PR 5	PAYA KELUBI MANGO PROJECT	-	-	-	-	-	-
PR 6	HUTAN LEMBAH MANGO PROJECT	-	-	-	-	-	-
PR 7	TASEK MELATI II	-	-	-	-	-	-
<b>KEDAH</b>							
KH 1	DURIAN PERAGIN	LANGKAWI	NA	NA	NA	NA	NA
KH 2	AIR HANGAT	LANGKAWI	NA	NA	NA	NA	NA
KH 3	AMPANGAN PDG SAGA	LANGKAWI	-	-	-	-	-
KH 4	KAWASAN PADI KEDAWANG	LANGKAWI	-	-	-	-	-
KH 5	KEDAWANG	LANGKAWI	0	0	0	0	0
KH 6	P LIBALI BERKELOMPOK	KUBANG PASU	-	-	-	-	-
KH 13	KG PDG GELANGGANG	PDG TERAP	6204421	JPS	SG	1946	1967
KH 14	SKIM JANING	PDG TERAP	-	-	-	-	-
KH 15	LUBUK MERBAU	PDG TERAP	-	-	-	-	-
KH 16	SEKIM TANDOP BESAR	PDG TERAP	-	-	-	-	-
KH 19	KURONG HITAM IRRIGATION SCHEME	PDG TERAP	-	-	-	-	-
KH 31	KUBUR PANJANG	PENDANG	-	-	-	-	-
KH 32	KG KAYU TIGA	PENDANG	-	-	-	-	-
KH 34	KG SAWA KECIK	PENDANG	0	0	0	0	0
KH 35	BK PERAK	PENDANG	-	-	-	-	-
KH 40	SG AIR JERNIH	KUALA MUDA	-	-	-	-	-
KH 41	SG BARU	KUALA MUDA	-	-	-	-	-
KH 43	BENDANG DALAM	KUALA MUDA	-	-	-	-	-
KH 48	KG BETONG - P DURIAN KELOMPOK	SIK	NA	NA	NA	NA	NA
KH 49	KG KUBANG YOI	SIK	NA	NA	NA	NA	NA
KH 50	KG SELAMAT - P SAYUR + BUAHAN	SIK	NA	NA	NA	NA	NA
<b>PULAU PINANG</b>							
PP 1	LUAR DAN PINANG TUNGGAL	S PERAI UTARA	5505412	JPS	SG	1947	OG
PP 2		S PERAI UTARA	5505412	JPS	SG	1947	OG
PP 3	TOK BEDU IRRIGATION AREA	S PERAI UTARA	-	-	-	-	-
PP 4	KG TOK BEDU, AIR MELINTAS, PMTG BERANGAN	S PERAI UTARA	-	-	-	-	-
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	S PERAI UTARA	-	-	-	-	-
PP 6	SG JARAK IRRIGATION AREA	S PERAI UTARA	-	-	-	-	-
PP 7	BK TOH ALLANG	S PERAI UTARA	5405421	JPS	SG	1950	OG
PP 8	SG BURUNG	BARAT DAYA	-	-	-	-	-
PP 9	SG BURUNG	BARAT DAYA	-	-	-	-	-
PP 10	MAK SULONG	S PERAI TENGAH	5405421	JPS	SG	1950	OG
PP 11	SG KULIM IRRIGATION SCHEME	S PERAI TENGAH	5405421	JPS	SG	1950	OG
PP 12	SKIM PENGALIRAN SG KULIM	S PERAI TENGAH	-	-	-	-	-
PP 13	SKIM PENGALIRAN TASEK SELATAN	S PERAI SELATAN	-	-	-	-	-
<b>PERAK</b>							
PK 1	KG TASEK	HULU PERAK	-	-	-	-	-
PK 2	PUSAT PERT TANAH TINGGI BK BARING	HULU PERAK	-	-	-	-	-
PK 3	INDUSTRI BUAH-BUAHAN	SELAMA	-	-	-	-	-
PK 4	BENDANG TEMELONG	HULU PERAK	-	-	-	-	-
PK 5	P KELOMPOK BUAH-BUAHAN	LARUT MATANG	-	-	-	-	-
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	LARUT MATANG	-	-	-	-	-
PK 7	SENOUK CHANGKAT NING	LARUT MATANG	-	-	-	-	-
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	LARUT MATANG	-	-	-	-	-
PK 9	BENDANG JENALIK	KUALA KANGSAR	-	-	-	-	-
PK 10	BENDANG KG LANEH	KUALA KANGSAR	-	-	-	-	-
PK 11	RANC TALIAIR BENDANG SENGGANG	KUALA KANGSAR	-	-	-	-	-
PK 12	RANC TALIAIR BENDANG LEMPOR	KUALA KANGSAR	-	-	-	-	-
PK 13	RANC TALIAIR PDG RENGAS	KUALA KANGSAR	-	-	-	-	-
PK 15	DENDANG A	MANJUNG	-	-	-	-	-
PK 16	DENDANG B	MANJUNG	-	-	-	-	-
PK 17	BRUAS & TAMBAHAN	MANJUNG	4506401	JPS	SG	1978	1980
PK 19	KG LALAT BATU 7	HILIR PERAK	4012401	JPS	SG	1980	OG
PK 20	SG BATANG PDG MATI	HILIR PERAK	-	-	-	-	-
PK 21	SG MANIK IRRIG SCHEME	HILIR PERAK	4111455	JPS	SG	1962	OG
<b>SELANGOR</b>							
SG 1	TEBUK BERIHUN	SABAK BERNAM	3813411	JPS	SG	1933	OG
SG 3	SG JANU	HULU SELANGOR	-	-	-	-	-
SG 4	BK TAMU	HULU SELANGOR	-	-	-	-	-
SG 5	KG KALONG TENGAH	HULU SELANGOR	-	-	-	-	-
SG 6	P SAYURAN SG YU	KUALA SELANGOR	3414421	JPS	SG	1921	OG
SG 8	KUANG	GOMBAK	3516422	JPS	SG	1961	OG
SG 9	REKREASI SG CHONGKAK	HULU LANGAT	-	-	-	-	-
SG 10	KG KANTAN	HULU LANGAT	-	-	-	-	-
SG 11	KG PASIR	HULU LANGAT	2918401	JPS	SG	1975	OG
SG 12	MINANG KABAU	HULU LANGAT	-	-	-	-	-
SG 13	JLN ENAM KAKI I	HULU LANGAT	-	-	-	-	-
SG 14	SAPAN BT MINANGKABAU	HULU LANGAT	-	-	-	-	-
SG 15	SG JAI BK KEPONG	HULU LANGAT	-	-	-	-	-
SG 16	MARDI RESEARCH STATION	KELANG	-	-	-	-	-
SG 18	TAMAN PERT MALAYSIA	PETALING	-	-	-	-	-
SG 24	P KELOMPOK SAYURAN KG ENDAH	KUALA LANGAT	-	-	-	-	-
SG 25	P KELOMPOK KONTAN KG KUNDANG	KUALA LANGAT	-	-	-	-	-

TABLE A.3.4 STREAMFLOW STATION (2/2)

Code No	Name of Project Area	District	Streamflow Station	Administration	Observed Item	Started year	Ended year
<b>NEGERI SEMBILAN</b>							
NS 1	STESSEN MARDI JELEBU	JELEBU	3022431	JPS	SG	1947	OG
NS 2	BUAH-BUAHAN LANJUT MANIS	KUALA PILAH	-	-	-	-	-
NS 3	SRI MENANTI	KUALA PILAH	-	-	-	-	-
NS 4	PEMBANGUNAN SAWAH KG. LONDAH	GEMAS	2525412	JPS	SG	1947	OG
NS 5	REMBAU	REMBAU	-	-	-	-	-
NS 6	P TERNAKAN UDANG GALAH	KUALA PILAH	-	-	-	-	-
NS 7	KELOMPOK KG CHENGKAU ULU	REMBAU	-	-	-	-	-
NS 8	KG BK TEMBOK & SG RAYA	PORT DICKSON	-	-	-	-	-
<b>MELAKA</b>							
MA 1	TEBONG	ALOR GAJAH	-	-	-	-	-
MA 2	ULU SG BULOI	ALOR GAJAH	-	-	-	-	-
MA 3	SOLOK BT ALANG	ALOR GAJAH	-	-	-	-	-
MA 4	FELCRA RAMUAN CINA	ALOR GAJAH	-	-	-	-	-
MA 5	MERIAM PATAH	ALOR GAJAH	-	-	-	-	-
MA 6	SOLOK PUNGGAI	ALOR GAJAH	-	-	-	-	-
MA 9	PDG KELADI	ALOR GAJAH	2322415	JPS	SG	1963	OG
MA 11	SG UDANG	MELAKA TENGAH	-	-	-	-	-
MA 12	FELDA BK KATIL	MELAKA TENGAH	-	-	-	-	-
MA 14	KANDANG	MELAKA TENGAH	2223401	JPS	SG	1981	1983
MA 13	SOLOK BK META	MELAKA TENGAH	-	-	-	-	-
MA 16	FELCRA BK SEDANAN	JASIN	-	-	-	-	-
MA 17	CINCIN LAKE	JASIN	-	-	-	-	-
MA 18	KG PULAU SERKAM	JASIN	-	-	-	-	-
<b>JOHOR</b>							
JR 3	SAWAH KEBUN BARU	MUAR	-	-	-	-	-
JR 8	LDG KELOMPOK KG SRI TIMOR	KLUANG	2225401	JPS	SG	1978	OG
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENG	BATU PAHAT	-	-	-	-	-
JR 10	LDG KELOMPOK KANGKAR, MERLIMAU	BATU PAHAT	-	-	-	-	-
JR 12	TUNJOK LAUT	KOTA TINGGI	2039461	JPS	SG	1963	1973
JR 14	SG CHEMARAN	KOTA TINGGI	-	-	-	-	-
<b>KELANTAN</b>							
KN 1	JUBAKAR PANTAI	TUMPAT	-	-	-	-	-
KN 4	KG BELIAN	TUMPAT	-	-	-	-	-
KN 5	LUBOK SELEHONG	TUMPAT	-	-	-	-	-
KN 8	BENDANG JELUTONG, KOK LANAS	KOTA BHARU	-	-	-	-	-
KN 9	BENDANG BT TINGGI, BK CHINA	KOTA BHARU	-	-	-	-	-
KN 10	BENDANG SOKOR, BK CHINA	KOTA BHARU	-	-	-	-	-
KN 11	KUBANG TEBAKANG	PASIR MAS	-	-	-	-	-
KN 12	BENDANG TASEK BERANGAN	PASIR MAS	-	-	-	-	-
KN 13	TASIK PUTERA	PASIR MAS	-	-	-	-	-
KN 16	BENDANG PMTG SUNKAI	PASIR PUTEH	-	-	-	-	-
KN 24	RANC TALIAIR HILIR SAT I	MACHANG	-	-	-	-	-
KN 26	RANC PENGAIRAN TERASIL	TANAH MERAH	-	-	-	-	-
KN 27	RANC PANGAIRAN GUAL IPOH	TANAH MERAH	-	-	-	-	-
KN 35	RANC TALIAIR LEPAN AGOR	KUALA KRAI	-	-	-	-	-
<b>TERENGGANU</b>							
TR 1	TELABAK IRRIGATION SCHEME	BESUT	NA	NA	NA	NA	NA
TR 3	SKIM TANAMAN PADI MARAS	KUALA TRG	NA	NA	NA	NA	NA
TR 4	P KELOMPOK SAYURAN	KUALA TRG	NA	NA	NA	NA	NA
TR 7	SALIRAN TOK JIRING	KUALA TRG	NA	NA	NA	NA	NA
TR 12	P KELOMPOK SAYURAN	KUALA TRG	NA	NA	NA	NA	NA
TR 14	P KELOMPOK SAYURAN	KUALA TRG	NA	NA	NA	NA	NA
TR 20	SKIM TANAM PADI DURIAN HAJI	MARANG	NA	NA	NA	NA	NA
TR 21	P KELOMPOK SAYURAN	MARANG	NA	NA	NA	NA	NA
TR 28	P KELOMPOK SAYURAN	MARANG	NA	NA	NA	NA	NA
TR 34	LEMBAH MAEANG II	MARANG	NA	NA	NA	NA	NA
TR 38	P KELOMPOK SAYURAN	MARANG	NA	NA	NA	NA	NA
TR 42	P KELOMPOK SAYURAN	HULU TRG	NA	NA	NA	NA	NA
TR 44	P KELOMPOK SAYURAN	HULU TRG	NA	NA	NA	NA	NA
TR 45	P KELOMPOK SAYURAN	HULU TRG	NA	NA	NA	NA	NA
TR 50	KOLAM ABANG	DUNGUN	NA	NA	NA	NA	NA
<b>PAHANG</b>							
PH 9	PAYA PAGAR SASAK	LIPIS	-	-	-	-	-
PH 11	P.WAU, BETONG & GEMAYAH	MARAN	-	-	-	-	-
PH 12	PAYA JELUTUNG	MARAN	-	-	-	-	-
PH 13	PAYA NYAK BESAR	MARAN	-	-	-	-	-
PH 14	PAYA TING & BESAR KERTAU	MARAN	-	-	-	-	-
PH 16	PAYA NYAK KECIL	MARAN	-	-	-	-	-
PH 17	PAYA PDG TENGGALA	MARAN	-	-	-	-	-
PH 19	PAYA SG LING	MARAN	-	-	-	-	-
PH 20	PAYA LANTING	MARAN	-	-	-	-	-
PH 23	PAYA PESAGI	MARAN	-	-	-	-	-
PH 24	PAYA KROT	MARAN	-	-	-	-	-
PH 25	PAYA LDG	MARAN	-	-	-	-	-

TABLE A.3.5 FLOOD CONDITON (1/2)

Code No	Name of Project Area	1989	1990	1991	1992	1993	Most Serious Flood Year	Most Serious Drought Year
<b>PERLIS</b>								
PR 1	SIMPANG GETI	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PR 2	PANGGAS-SMALL DAM PROJECT	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PR 4	TASEK MELATI	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PR 5	PAYA KELUBI MANGO PROJECT	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PR 6	HUTAN LEMBAH MANGO PROJECT	FLOOD	NORMAL	FLOOD	FLOOD	NORMAL	1987	-
PR 7	TASEK MELATI II	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
<b>KEDAH</b>								
KH 1	DURIAN PERAGIN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NA	NA
KH 2	AIR HANGAT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NA	NA
KH 3	AMPANGAN PDG SAGA	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
KH 4	KAWASAN PADI KEDAWANG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
KH 5	KEDAWANG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
KH 6	P LIRALI BERKELOMPOK	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 13	KG PDG GELANGGANG	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 14	SKIM JANING	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 15	LUBUK MERBAU	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 16	SEKIM TANDOP BESAR	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 19	KURONG HITAM IRRIGATION SCHEME	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 31	KUBUR PANJANG	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 32	KG KAYU TIGA	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 34	KG SAWA KECIK	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 35	BK PERAK	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1988	-
KH 40	SG AIR JERNIH	NORMAL	FLOOD	NORMAL	FLOOD	NORMAL	1988	-
KH 41	SG BARU	NORMAL	FLOOD	NORMAL	FLOOD	NORMAL	1988	-
KH 43	BENDANG DALAM	NORMAL	FLOOD	NORMAL	FLOOD	NORMAL	1988	-
KH 48	KG BETONG - P DURIAN KELOMPOK	NA	NA	NA	NA	NA	NA	NA
KH 49	KG KUBANG YOI	NA	NA	NA	NA	NA	NA	NA
KH 50	KG SELAMAT - P SAYUR + BUAHAN	NA	NA	NA	NA	NA	NA	NA
<b>PULAU PINANG</b>								
PP 1	LUAR BAN PINANG TUNGGAL	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 2		FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 3	TOK BEDU IRRIGATION AREA	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 4	KG TOK BEDU, AIR MELINTAS, PMTG BERANGAN	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 6	SG JARAK IRRIGATION AREA	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 7	BK TOH ALLANG	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 8	SG BURUNG	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1987	-
PP 9	SG BURUNG	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1987	-
PP 10	MAK SULONG	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 11	SG KULIM IRRIGATION SCHEME	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 12	SKIM PENGAIRAN SG KULIM	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
PP 13	SKIM PENGAIRAN TASEK SELATAN	FLOOD	FLOOD	FLOOD	FLOOD	NORMAL	1988	-
<b>PERAK</b>								
PK 1	KG TASEK	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 2	PUSAT PERT TANAH TINGGI BK BARING	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 3	INDUSTRI BUAH-BUAHAN	NORMAL	FLOOD	FLOOD	NORMAL	NORMAL	1987	-
PK 4	BENDANG TEMELONG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 5	P KELOMPOK BUAH-BUAHAN	NORMAL	NORMAL	FLOOD	NORMAL	NORMAL	1991	-
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	NORMAL	NORMAL	FLOOD	NORMAL	NORMAL	1991	-
PK 7	SENOUK CHANGKAT NING	NORMAL	NORMAL	FLOOD	NORMAL	NORMAL	1991	-
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	NORMAL	NORMAL	FLOOD	NORMAL	NORMAL	1991	-
PK 9	BENDANG JENALIK	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 10	BENDANG KG LANEH	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 11	RANC TALIAIR BENDANG SENGGANG	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 12	RANC TALIAIR BENDANG LEMPOR	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1987	-
PK 13	RANC TALIAIR PDG RENGAS	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
PK 15	DENDANG A	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
PK 16	DENDANG B	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
PK 17	BRUAS & TAMBAHAN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
PK 19	KG LALAT BATU 7	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
PK 20	SG BATANG PDG MATI	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
PK 21	SG MANIK, IRRIG SCHEME	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
<b>SELANGOR</b>								
SG 1	TEBUK BERIHUN	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	1987	-
SG 3	SG JANG	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 4	BK TAMU	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 5	KG KALONG TENGAH	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 6	P SAYURAN SG YU	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 8	KUANG	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 9	REKREASI SG CHONGKAK	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 10	KG KANTAN	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 11	KG PASIR	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 12	MINANG KABAU	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 13	JLN ENAM KAKI I	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 14	SAPAN BT MINANGKABAU	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 15	SG JAI BK KEPONG	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1991	-
SG 16	MARDI RESEARCH STATION	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1991	-
SG 18	TAMAN PERT MALAYSIA	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NA	-
SG 24	P KELOMPOK SAYURAN KG ENDAH	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1992	-
SG 25	P KELOMPOK KONTAN KG KUNDANG	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1992	-

TABLE A.3.5 FLOOD CONDITON (2/2)

Code No	Name of Project Area	1989	1990	1991	1992	1993	Most Serious Flood Year	Most Serious Drought Year
<b>NEGERI SEMBILAN</b>								
NS 1	STESEN MARDI JELEBU	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1985	-
NS 2	BUAH-BUAHAN LANJUT MANIS	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1988	-
NS 3	SRI MENANTI	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1985	-
NS 4	PEMBANGUNAN SAWAH KG. LONDAH	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1988	-
NS 5	REMBAU	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1985	-
NS 6	P TERNAKAN UDANG GALAH	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1985	-
NS 7	KELOMPOK KG CHENGAU ULU	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
NS 8	KG BK TEMBOK & SG RAYA	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1985	-
<b>MELAKA</b>								
MA 1	TEBONG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 2	ULU SG BULOH	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 3	SOLOK BT ALANG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 4	FELCRA RAMUAN CINA	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 5	MERIAM PATAH	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	-	-
MA 6	SOLOK PUNGGAI	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 9	PDG KELADI	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 11	SG UDANG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 12	FELDA BK KATIL	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 14	KANDANG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 15	SOLOK BK META	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	1984	-
MA 16	FELCRA BK SEDANAN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
MA 17	CINCIN LAKE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
MA 18	KG PULAU/SERKAM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	1984	-
<b>JOHOR</b>								
JR 3	SAWAH KEBUN BARU	NORMAL	NORMAL	FLOOD	FLOOD	NORMAL	1986	NA
JR 8	LDG KELOMPOK KG SRI TIMOR	FLOOD	NORMAL	FLOOD	FLOOD	FLOOD	1987	NA
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENG	FLOOD	FLOOD	FLOOD	NORMAL	NORMAL	1986	NA
JR 10	LDG KELOMPOK KANGKAR MERLIMAU	FLOOD	FLOOD	FLOOD	NORMAL	NORMAL	1986	NA
JR 12	TUNJOK LAUT	FLOOD	NORMAL	FLOOD	NORMAL	FLOOD	1987	NA
JR 14	SG CHEMARAN	FLOOD	NORMAL	FLOOD	NORMAL	NORMAL	1987	NA
<b>KELANTAN</b>								
KN 1	JUBAKAR PANTAI	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 4	KG BELIAN	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 5	LUBOK SELEHONG	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 8	BENDANG JELUTONG, KOK LANAS	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 9	BENDANG BT TINGGI, BK CHINA	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 10	BENDANG SOKOR, BK CHINA	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 11	KUBANG TEBAKANG	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 12	BENDANG TASEK BERANGAN	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 13	TASIK PUTERA	NORMAL	FLOOD	FLOOD	FLOOD	FLOOD	1988	-
KN 16	BENDANG PMTG SUNKAI	NORMAL	NORMAL	FLOOD	NORMAL	FLOOD	1988	-
KN 24	RANC TALIAIR HILIR SAT I	NORMAL	NORMAL	FLOOD	NORMAL	FLOOD	1988	-
KN 26	RANC PENGAIRAN TERASIL	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1988	-
KN 27	RANC PANGAIRAN GUAL IPOH	NORMAL	NORMAL	FLOOD	FLOOD	FLOOD	1988	-
KN 35	RANC TALIAIR LEPAN AGOR	NORMAL	FLOOD	NORMAL	FLOOD	FLOOD	1988	-
<b>TERENGGANU</b>								
TR 1	TELABAK IRRIGATION SCHEME	NORMAL	FLOOD	NORMAL	NORMAL	FLOOD	1986	-
TR 3	SKIM TANAMAN PADI MARAS	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 4	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 7	SALIRAN TOK JIRING	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 12	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 14	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 20	SKIM TANAM PADI DURIAN HAJI	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 24	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 28	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 34	LEMBAH MARANG II	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 38	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	FLOOD	1986	-
TR 42	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 44	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 45	P KELOMPOK SAYURAN	NORMAL	FLOOD	NORMAL	NORMAL	NORMAL	1986	-
TR 50	KOLAM ABANG	NORMAL	FLOOD	NORMAL	NORMAL	FLOOD	1986	-
<b>PAHANG</b>								
PH 9	PAYA PAGAR SASAK	NORMAL	NORMAL	NORMAL	FLOOD	NORMAL	3976	-
PH 11	P.WAU.BETONG & OEMAYAI	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	1990
PH 12	PAYA JELUTUNG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 13	PAYA NYAK BESAR	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 14	PAYA TING & BESAR KERTAU	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 16	PAYA NYAK KECIL	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 17	PAYA PDG TENGGALA	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 19	PAYA SG LING	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 20	PAYA LANTING	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 23	PAYA PESAGI	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 24	PAYA KROT	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-
PH 25	PAYA LDG	NORMAL	NORMAL	NORMAL	NORMAL	FLOOD	3976	-

TABLE A.3.6 RIVER AND SEDIMENT CONDITION (1/2)

Code No	Name of Project Area	Name of River	Catchment area at intake (km <sup>2</sup> )	River Condition	Runoff Characteristics	Sediment Condition	Sediment Tendency
<b>PERLIS</b>							
PR 1	SIMPANG GETI	SG JERNEH	3	seasonal	not rapid	little	same
PR 2	PANGOAS-SMALL DAM PROJECT	SG SERAI	15	seasonal	not rapid	little	same
PR 4	TASEK MELATI	ALOR TASEK MELATI	3	seasonal	not rapid	little	same
PR 5	PAYA KELUBI MANGO PROJECT	ANAK SG. CHUPING	0	seasonal	-	-	-
PR 6	HUTAN LEMBAH MANGO PROJECT	SG. GIAL	0	seasonal	-	-	-
PR 7	TASEK MELATI II	ALOR TASEK MELATI	3	seasonal	-	-	-
<b>KEDAH</b>							
KH 1	DURIAN PERAGIN	CAROK DURIAN PERAGIN	NA	NA	not rapid	NA	NA
KH 2	AIR HANGAT	SG KUBANG BADAQ	NA	NA	not rapid	NA	NA
KH 3	AMPANGAN PDG SAGA	SG SAGA / PETANG	12	perennial	rapid	some	same
KH 4	KAWASAH PADI KEDAWANG	SG CENANG	10	-	not rapid	little	same
KH 5	KEDAWANG	SG CENANG	-	-	-	-	-
KH 6	P LIBALI BERKELOMPOK	SG LAMPAM/ SG RAMBAI	1	perennial	rapid	some	same
KH 13	KG PDG GELANGOANG	SG PDG KERBAU	13	perennial	rapid	some	same
KH 14	SKIM JANING	SG TITI TERAS	30	perennial	rapid	some	same
KH 15	LUBUK MERBAU	SG BK PERAK	3	perennial	rapid	some	same
KH 16	SEKIM TANDOP BESAR	SG AIR JERNIH	20	perennial	rapid	little	same
KH 19	KURONG HITAM IRRIGATION SCHEME	SG GUAR BT HITAM	31	perennial	rapid	some	same
KH 31	KUBUR PANJANG	SG PDG TERAP	70	perennial	rapid	some	same
KH 32	KG KAYU TIGA	SG JANING	4	perennial	not rapid	some	same
KH 34	KG SAWA KECIK	SG PEDU	-	perennial	?	little	getting worse
KH 35	BK PERAK	SG TANDOP BESAR	0	perennial	not rapid	some	same
KH 40	SG AIR JERNIH	SG PERIK	10	perennial	rapid	little	same
KH 41	SG BARU	SG BARU	10	perennial	rapid	little	others
KH 43	BENDANG DALAM	CAROK BENDANG DALAM	1	perennial	-	-	same
KH 48	KG BETONG - P DURIAN KELOMPOK	-	2	perennial	rapid	some	same
KH 49	KG KUBANG YOI	-	NA	perennial	rapid	some	getting worse
KH 50	KG SELAMAT - P SAYUR + BUAHAN	-	1	perennial	not rapid	little	same
<b>PULAU PINANG</b>							
PP 1	LUAR BAN PINANG TUNGGAL	SG KREK	4145	perennial	not rapid	heavy	getting worse
PP 2	-	SG KREH	-	-	-	-	-
PP 3	TOK BEDU IRRIGATION AREA	SG KREH	19	perennial	not rapid	little	getting worse
PP 4	KG TOK BEDU, AIR MELINTAS, PMTG BERANGAN	SG KULIM	-	-	-	-	-
PP 5	PINANG TUNGGAL IRRIGATION AREA (PIA)	SG BURUNG	7	seasonal	not rapid	little	same
PP 6	SG JARAK IRRIGATION AREA	SG BURONG	27	perennial	not rapid	heavy	getting worse
PP 7	BK TOH ALLANG	SG KULIM	-	-	-	-	-
PP 8	SG BURUNG	SG KULIM	-	-	-	-	-
PP 9	SG BURUNG	SG JELUTONG	14	seasonal	-	-	-
PP 10	MAK SULONG	SG JUNJONG	-	-	-	-	-
PP 11	SG KULIM IRRIGATION SCHEME	-	153	perennial	rapid	some	getting worse
PP 12	SKIM PENGAIRAN SG KULIM	-	5	perennial	not rapid	some	getting worse
PP 13	SKIM PENGAIRAN TASEK SELATAN	-	NA	perennial	rapid	some	getting worse
<b>PERAK</b>							
PK 1	KG TASEK	SG TASEK	9	perennial	rapid	little	same
PK 2	PUSAT PERT TANAH TINGGI BK BARING	SG GONG, SG JAKAL	NA	perennial	rapid	little	same
PK 3	INDUSTRI BUAH-BUAHAN	SG CHOP	NA	perennial	not rapid	little	same
PK 4	BENDANG TEMELONG	SG LENGGONG	21	perennial	rapid	little	same
PK 5	P KELOMPOK BUAH-BUAHAN	SG PULAU	33	perennial	not rapid	little	same
PK 6	P KELOMPOK BUAH-BUAHAN/SAYURAN	SG ANAK KURAU	9	seasonal	not rapid	some	getting worse
PK 7	SENOUK CHANGKAT NING	SG SENOUK	29	perennial	rapid	some	getting worse
PK 8	P KELOMPOK BUAH-BUAHAN AIR PUTIH	SG MALAI	NA	perennial	rapid	little	same
PK 9	BENDANG JENALIK	-	11	perennial	rapid	little	same
PK 10	BENDANG KG LANEH	SG LANEH	3	perennial	rapid	little	same
PK 11	RANC TALIAIR BENDANG SENGJANG	SG SENOGANG	3	perennial	rapid	little	same
PK 12	RANC TALIAIR BENDANG LEMPOR	SG LEMPOR	2	perennial	rapid	little	same
PK 13	RANC TALIAIR PDG RENGAS	SG PAPAN, SG BT PENGASAH	NA	-	-	-	-
PK 15	DENDANG A	SG DENDANG, SG BRUAS	NA	-	-	-	-
PK 16	DENDANG B	SG DENDANG, SG BRUAS	NA	-	-	-	-
PK 17	BRUAS & TAMBAHAN	SG BRUAS	NA	-	-	-	-
PK 19	KG LALAT BATU 7	SG BIDOR	NA	-	-	-	-
PK 20	SG BATANG PDG MATI	SG BATANG PDG MATI	7	perennial	not rapid	some	same
PK 21	SG MANIK IRRIG SCHEME	SG BATANG PDG	111	perennial	not rapid	some	same
<b>SELANGOR</b>							
SG 1	TEBUK BERIHUN	SG LIAM	-	-	-	-	-
SG 3	SG JANG	SG SELANGOR	-	-	-	-	-
SG 4	BK TAMU	SG SELANGOR/SG KUANG	-	-	-	-	-
SG 5	KG KALONG TENGAH	SG CHONGKAK	-	-	-	-	-
SG 6	P SAYURAN SG YU	SG TEKALI	-	-	-	-	-
SG 8	KUANG	SG SEMENYIH	3450	perennial	rapid	some	getting worse
SG 9	REKREASI SG CHONGKAK	-	118	perennial	rapid	heavy	getting worse
SG 10	KG KANTIAN	SG GOMP	-	-	-	-	-
SG 11	KG PASIR	SG BERANANG/SG PURUN	-	-	-	-	-
SG 12	MINANG KABAU	SG SOMPO	-	-	-	-	-
SG 13	JLN ENAM KAKI 1	-	88	perennial	rapid	little	getting worse
SG 14	SAPAN BT MINANGKABAU	SG BARU DAM	59	perennial	rapid	some	getting worse
SG 15	SG JAI BK KEPONG	NIL	70	perennial	rapid	little	getting worse
SG 16	MARDI RESEARCH STATION	NIL	-	-	-	-	-
SG 18	TAMAN PERT MALAYSIA	-	-	-	-	-	-
SG 24	P KELOMPOK SAYURAN KG ENDAH	-	-	-	-	-	-
SG 25	P KELOMPOK KONFAN KG KUNDANG	-	-	-	-	-	-

TABLE A.3.6 RIVER AND SEDIMENT CONDITION (2/2)

Code No	Name of Project Area	Name of River	Catchment area at intake (km <sup>2</sup> )	River Condition	Runoff Characteristics	Sediment Condition	Sediment Tendency
<b>NEGERI SEMBILAN</b>							
NS 1	STESAN MARDI JELEBU	SG MUAR	NA	perennial	not rapid	some	getting worse
NS 2	BUAH-BUAHAN LANJUT MANIS	SG BATU HAMPAR	NA	perennial	not rapid	some	getting worse
NS 3	SRI MENANTI	SG CHENGKAU	53	-	rapid	some	same
NS 4	PEMBANGUNAN SAWAH KG. LONDAI	SG RAYA	400	-	rapid	some	getting worse
NS 5	REMBAU	SG SASAI	13	perennial	rapid	little	same
NS 6	P TERNAKAN UDANG GALAH		NA	-	-	-	-
NS 7	KELOMPOK KG CHENGKAU ULU		0	perennial	not rapid	some	same
NS 8	KG BK TEMBOK & SG RAYA		NA	-	-	-	-
<b>MELAKA</b>							
MA 1	TEBONG	SG RAMUAN CHINA BESAR	-	-	-	-	-
MA 2	ULU SG BULOH	SG LINGGI	403	perennial	not rapid	little	same
MA 3	SOLOK BT ALANG	SG BRISU	-	-	-	-	-
MA 4	FELCRA RAMUAN CINA	SG DURIAN TUNGGAL	-	-	-	-	-
MA 5	MERIAM PATAH	SG UDANG	-	-	-	-	-
MA 6	SOLOK PUNGGAI	ANAK SG GAPAM	-	-	-	-	-
MA 9	PDG KELADI	SG DU YONG	-	-	-	-	-
MA 11	SG UDANG	SG PUNGGUR	397	perennial	not rapid	little	same
MA 12	FELDA BK KATIL	SG AYER MENTANGOR	-	-	-	-	-
MA 14	KANDANG	SG CINCIN	NA	seasonal	not rapid	little	NA
MA 15	SOLOK BK META	SG SERKAM	NA	seasonal	-	-	-
MA 16	FELCRA BK SEDANAN		62	perennial	not rapid	little	same
MA 17	CINCIN LAKE		-	-	-	-	-
MA 18	KG PULAU/SERKAM		-	-	-	-	-
<b>JOHOR</b>							
JR 3	SAWAH KEBUN BARU	SG SEDILI BESAR, SG MENCKELOK	37	perennial	not rapid	some	same
JR 8	LDG KELOMPOK KG SRI TIMOR		-	NA	not rapid	heavy	same
JR 9	LDG KELOMPOK BT SAMBULAN, YONG PENG		-	seasonal	not rapid	some	same
JR 10	LDG KELOMPOK KANGKAR MERLIMAU		2	seasonal	not rapid	little	same
JR 12	TUNJOK LAUT		3	seasonal	not rapid	some	same
JR 14	SG CHEMARAN	SG GALI	-	seasonal	not rapid	some	same
<b>KELANTAN</b>							
KN 1	JUBAKAR PANTAI	ALOR MAHANG	4	perennial	rapid	NA	same
KN 4	KG BELIAN	ALOR SOKOR	3	seasonal	not rapid	little	same
KN 5	LUBOK SELEHONG	ALOR	3	perennial	not rapid	little	same
KN 8	BENDANG JELUTONG, KOK LANAS	ALOR	0	perennial	not rapid	little	same
KN 9	BENDANG BT TINGGI, BK CHINA	ALOR PUSU BESAR	0	perennial	not rapid	little	same
KN 10	BENDANG SOKOR, BK CHINA	SG LINJA	0	perennial	not rapid	little	same
KN 11	KUBANG TEBAKANG	SG SAT	9	seasonal	not rapid	little	same
KN 12	BENDANG TASEK BERANGAN	SG PAKU	NA	NA	not rapid	little	NA
KN 13	TASIK PUTERA	SG KUSIAL	8	seasonal	not rapid	little	same
KN 16	BENDANG PMTG SUNKAI	SG GEH	3	seasonal	not rapid	some	same
KN 24	RANC TALIAIR HILIR SAT 1		15	perennial	not rapid	some	getting worse
KN 26	RANC PENGAIRAN TERASIL		32	perennial	not rapid	little	same
KN 27	RANC PANGAIRAN GUAL IPOH		21	perennial	not rapid	little	same
KN 35	RANC TALIAIR LEPAN AGOR		17	perennial	not rapid	little	same
<b>TERENGGANU</b>							
TR 1	TELABAK IRRIGATION SCHEME		6	perennial	not rapid	little	same
TR 3	SKIM TANAMAN PADI MARAS		2	seasonal	not rapid	little	same
TR 4	P KELOMPOK SAYURAN		2	NA	NA	NA	NA
TR 7	SALIRAN TOK JIRING		851	seasonal	NA	little	same
TR 12	P KELOMPOK SAYURAN		2	perennial	NA	NA	NA
TR 14	P KELOMPOK SAYURAN		NA	NA	NA	NA	NA
TR 20	SKIM TANAM PADI DURIAN HAJI	SG MENGABANG	4	perennial	not rapid	little	same
TR 24	P KELOMPOK SAYURAN	PANCOR MARAS	NA	NA	NA	NA	NA
TR 28	P KELOMPOK SAYURAN	SG TOK JIRING	NA	NA	NA	NA	NA
TR 34	LEMBAH MARANG II	SG TOK RAJA / DUKA	40	perennial	not rapid	some	same
TR 38	P KELOMPOK SAYURAN	ALOR PAK BONG	NA	NA	NA	NA	NA
TR 42	P KELOMPOK SAYURAN		NA	NA	NA	NA	NA
TR 44	P KELOMPOK SAYURAN		2	perennial	rapid	NA	NA
TR 45	P KELOMPOK SAYURAN		2	NA	NA	NA	NA
TR 50	KOLAM ABANG	SG BEDONG	0	perennial	not rapid	little	same
<b>PAHANG</b>							
PH 9	PAYA PAGAR SASAK	SG KERTAU & SG TING	3	seasonal	not rapid	little	getting worse
PH 11	P WAU, BETONG & GEMAYAH	SG NYAK KECIL	7	seasonal	not rapid	little	same
PH 12	PAYA JELUTUNG	ANAK SG JENGKA	2	perennial	not rapid	little	same
PH 13	PAYA NYAK BESAR	SG LING	10	perennial	not rapid	little	same
PH 14	PAYA TING & BESAR KERTAU	SG LANTING	5	perennial	not rapid	little	same
PH 16	PAYA NYAK KECIL	SG PESAGI	6	seasonal	not rapid	little	same
PH 17	PAYA PDG TENGGALA	SG KROT	7	perennial	not rapid	little	same
PH 19	PAYA SG LING		3	NA	rapid	little	same
PH 20	PAYA LANTING		34	perennial	not rapid	little	same
PH 23	PAYA PESAGI		NA	perennial	not rapid	little	same
PH 24	PAYA KROT		26	NA	not rapid	little	same
PH 25	PAYA LDG		5	seasonal	not rapid	little	same