

**APPENDIX E**

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Head Quarters, JPS KL (A)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Rainwater outlet</b>					
		1 No trap cover	1	1	1	A1	A1
		<b>Concrete gutter</b>					
		2 Mould growth on the surface	1	1	1	A2	A2
		3 Uneven and unsmooth surface	1	1	1	A3	A3
		4 Water ponding	1	1	1	A4	A4
		5 Water ponding and mould growth	1	1	1	A5	A5
6 Accumulation of debris	1	2	2	A6	A6		
		<b>Piping</b>					
		7 Organic growth	1	1	1	A7	A7
<b>Total marks (d) (<math>\Sigma</math> of c)</b>					8		
<b>Number of defects (e)</b>					7		
<b>Total score (d/e)</b>					1.1		
<b>Overall building rating</b>					<b>Good</b>		

**BUILDING CONDITION ASSESSMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Langkawi (B)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Gutter</b>					
		1 Leaking	2	2	4	B1	B1
		2 Leaking	2	2	4	B2	B2
		3 Rusty gutter bracket	2	2	4	B3	B3
		4 Distortion	2	2	4	B4	B4
		<b>Rainwater downpipe</b>					
		5 Gap at connection between gutter and downpipe	2	3	6	B5	B5
		6 Gap at connection between gutter and downpipe	2	3	6	B6	B6
		7 Unfixed downpipe bracket	2	1	2	B7	B7
		<b>Piping</b>					
		8 Broken piping	2	3	6	B8	B8
		9 Unproper piping and shrub	1	1	1	B9	B9
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			37		
		<b>Number of defects (e)</b>			9		
		<b>Total score (d/e)</b>			4.1		
		<b>Overall building rating</b>			<b>Fair</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Buffalo Park, Langkawl (C)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Gutter</b>					
		1 Sagging	2	2	4	C1	C1
		2 Unproper gutter ends	1	1	1	C2	C2
		<b>Piping</b>					
		3 Unproper piping	1	1	1	C3	C3
		4 Unproper piping	1	1	1	C4	C4
		5 Corrosion at stopcock	2	2	4	C5	C5
		<b>Pump</b>					
		6 Unproper place	1	1	1	C6	C6
		<b>Tank</b>					
		7 Accumulation of debris inside tank	2	2	4	C7	C7
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			16		
		<b>Number of defects (e)</b>			7		
		<b>Total score (d/e)</b>			<b>2.3</b>		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS (M&E), Ipoh (D)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis ( c )	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Distribution chamber</b>					
		1 Corrode steel cover	1	1	1	D1	D1
		<b>Underground tank</b>					
		2 Shrub at the area	1	1	1	D2	D2
		<b>Piping</b>					
		3 Corrosion at stopcock	2	2	4	D3	D3
		<b>Total marks (d) (Σ of c)</b>			6		
		<b>Number of defects (e)</b>			3		
		<b>Total score (d/e)</b>			2		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

MARDI, Cameron Highlands (E)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Catchment area</b>					
		1 Stain of mould	1	1	1	E1	E1
		<b>Gutter</b>					
		2 Corrode steel gutter	1	1	1	E2	E2
		<b>Pump</b>					
3 Unproper pump placing	1	1	1	E3	E3		
		<b>Piping</b>					
		4 Inadequate support	1	1	1	E4	E4
		<b>Drain</b>					
		5 Accumulation of sediment	1	2	2	E5	E5
<b>Total marks (d) (<math>\Sigma</math> of c)</b>					6		
<b>Number of defects (e)</b>					5		
<b>Total score (d/e)</b>					1.2		
<b>Overall building rating</b>					<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Seberang Perai Tengah, Seberang Perai (F)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	Gutter					
		1 Sagging	1	1	1	F1	F1
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			1		
		<b>Number of defects (e)</b>			1		
		<b>Total score (d/e)</b>			1		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Jalan Betik (G)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis ( c )	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Downpipe</b>					
		1 Leaking and algae growth	1	1	1	G1	g1
		<b>Underground tank</b>					
		2 Settlement around manhole	2	2	4	G2	G2
		3 Settlement around manhole	2	2	4	G3	G3
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			9		
		<b>Number of defects (e)</b>			3		
		<b>Total score (d/e)</b>			3		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Raub (H)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Gutter</b>					
		1 Sagging	2	2	4	H1	H1
		2 Oraganic Growth	2	3	6	H2	H2
		3 Leaking	2	3	6	H3	H3
		4 Mould stain	1	2	2	H4	H4
		<b>Downpipe</b>					
		5 Unfixed downpipe bracket	2	1	2	H5	H5
		<b>Filter</b>					
		6 Accumulation of sediment	1	2	2	H6	H6
<b>Total marks (d) (<math>\Sigma</math> of c)</b>					22		
<b>Number of defects (e)</b>					6		
<b>Total score (d/e)</b>					<b>3.7</b>		
<b>Overall building rating</b>					<b>Good</b>		



**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Bera (I)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Gutter</b>					
		1 Leaking	2	3	6	I1	I1
		2 Leaking and mould growth	2	3	4	I2	I2
		<b>Pump</b>					
		3 Uncovered pump system	1	1	1	I3	I3
		<b>Filter</b>					
		4 Accumulation of sediment	1	2	2	I4	I4
		<b>Tap water</b>					
		5 Shrub at the area	1	1	1	I5	I5
<b>Total marks (d) (<math>\Sigma</math> of c)</b>					14		
<b>Number of defects (e)</b>					5		
<b>Total score (d/e)</b>					2.8		
<b>Overall building rating</b>					<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Kuantan (J)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Gutter</b>					
		1 Gap and corrode	3	3	9	J1	J1
		<b>Downpipe</b>					
		2 Disconnection downpipe bracket	1	1	1	J2	J2
		<b>Tank</b>					
3 Organic growth	2	2	4	J3	J3		
4 Presence of trees-too close	1	3	3	J4	J4		
		<b>Tap water</b>					
		5 Organic growth	1	2	2	J5	J5
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			19		
		<b>Number of defects (e)</b>			5		
		<b>Total score (d/e)</b>			<b>3.8</b>		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Balik Pulau (K)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Downipe</b>					
		1 Leaking and mould growth	1	2	2	K1	K1
		<b>Underground tank</b>					
		2 Uneven ground surface	2	2	4	K2	K2
		3 setllement	2	2	4	K3	K3
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			10		
		<b>Number of defects (e)</b>			3		
		<b>Total score (d/e)</b>			<b>3.3</b>		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

JPS Dungun (L)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Gutter</b>					
		1 Unproper gutter ends	1	1	1	L1	L1
		<b>Piping</b>					
		2 sagging	2	1	2	L2	L2
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			3		
		<b>Number of defects (e)</b>			2		
		<b>Total score (d/e)</b>			1.5		
		<b>Overall building rating</b>			<b>Good</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Zoo Negara (M)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				Defects Plan Tag
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	
1	Roof	Downpipe 1 Leaking	2	2	4	M1	M1
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>			4		
		<b>Number of defects (e)</b>			1		
		<b>Total score (d/e)</b>			4		
		<b>Overall building rating</b>			<b>Fair</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Pasar Taman Permai (N)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment (a)	Priority Assessment (b)	Matrix Analysis (c) (a x b)	Photo No./ (Sketch No.)	Defects Plan Tag
1	Roof	<b>Catchment area</b>					
		1 Mould growth	2	2	4	M1	M1
		<b>Gutter</b>					
		2 rusty gutter bracket	2	2	4	M2	M2
		<b>Tank</b>					
		3 Leaking	3	2	6	M3	M3
		<b>Total marks (d) (Σ of c)</b>			14		
		<b>Number of defects (e)</b>			3		
		<b>Total score (d/e)</b>			<b>4.7</b>		
		<b>Overall building rating</b>			<b>Fair</b>		

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Pasar Taman Selamat (O)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1					
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag	
			(a)	(b)	(a x b)			
1	Roof	<b>Gutter</b>						
		1 Corrode and leaking	4	3	12	O1	O1	
		2 Corrode and leaking	4	3	12	O2	O2	
		3 Corrode and leaking	4	3	12	O3	O3	
		4 Distortion	4	3	12	O4	O4	
		<b>Downpipe</b>						
		5 Missing	5	4	20	O5	O5	
		6 Disconnecting	5	4	20	O6	O6	
		<b>Tank</b>						
		7 No outlet	5	4	20	O7	O7	
		8 Misplace	5	4	20	O8	O8	
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>	128					
		<b>Number of defects (e)</b>	8					
		<b>Total score (d/e)</b>	16					
		<b>Overall building rating</b>	Dilapidated					

**BUILDING CONDITION ASESMENT FOR RWH IN MALAYSIA**

Schedule of Building Condition (CSP1 Matrix)

Municipal Court & Foodcourt, Seberang Perai (P)

NO.	AREA	DEFECTS	Condition Survey Protocol (CSP) 1				
			Condition Assessment	Priority Assessment	Matrix Analysis (c)	Photo No./ (Sketch No.)	Defects Plan Tag
			(a)	(b)	(a x b)		
1	Roof	<b>Gutter</b>					
		1 Organic Growth	3	4	12	P1	P1
		<b>Pump</b>					
		2 Missing	5	4	20	P2	P2
		3 Missing	5	4	20	P3	P3
		<b>Tank</b>					
		4 No outlet	5	4	20	P4	P4
		<b>Total marks (d) (<math>\Sigma</math> of c)</b>	72				
		<b>Number of defects (e)</b>	4				
		<b>Total score (d/e)</b>	18				
		<b>Overall building rating</b>	Dilapidated				