	URBAN INFRASTRUCTURE							ROACH SCOPE OF SERVICES							
NO	PROJECT	YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	CONVENTIONAL DESIGN	DESIGN & BUILD	PRIVATISATION	PLANNING/STUDY	PRELIMINARY DESIGN	DETAILED DESIGN	CONSTRUCTION SUPERVISION	CONTRACT MANAGEMENT	PROJECT MANAGEMENT	ENVIRONMENTAL
	TOWNSHIP DEVELOPMENT														
1	Al- Morgan project- Sunut Forest and Residential	2008	RM300 million	Area comprises the Sunut forest of which the development will	Alsunut Development Company										
	Residential Area, Sudan		USD 83 million	comprise a golf course and 100 acres for a high -end residential)						
				development. Masterplan review, traffic study and infratructure											
<u> </u>				Masterplan review, traffic study and infratructure masterplanning											
2	Jazen Economic City- Saudi Arabia	2008	NA	Industrial development comprising 2000ha for Phase 1 and	Biwater Malaysia										
_	Cazeri Economic City Gadai / Tabla	2000	10/1	includes development of heavy industries, lifestyle development,	Biwater Malayola										
				agro industries and residential. C & S for water and sewerage											
3	Danga Bay Development, Johor	2008	RM270 Million USD 74 million	High-end mixed development for 232 acres. Project comprises infrastructure masterplanning, reclamation and shoreline protection	Kota Selat Tebrau Sdn Bhd										
4	Mangla View Resort Development -Pakistan	2005	RM288 million	High end resort development on 300 acres overlooking Mangla	Mangla View Resort Pte. Ltd									\vdash	
Ť	manga view record percupition in addition	2003	USD 80 million	Lake. Project comprises mixed development such as residential	Pakistan										
				units,hotel facilities,yatch club and marina											
5	Taman Alam Rimba, Putra Jaya	2000-2005	NA	Metropolitan Park on 370 acres to be developed as a showcase	Putrajaya Holdings Sdn Bhd									 	
6	Development of Jalan Acob Estate	1996- 2008	RM220 million	Development on an area of 1402 ha,located in Kapar, Selangor.	Sime UEP Bhd										
Ľ	Development of outain 7 toob Estate	1000 2000	USD 88 million	Masterplan review, conceptual infrastructure masterplan and detailed	Sinc del Brid										
				design of all infrastructure and utilities and construction supervision											
7	Encorp Development	1999	RM 37.8 million	Development of Phase 1 - 270 acres for integrated township	Encorp Sdn Bhd										
			USD 10.5 million	development, Infrastructure masterplan and detailed engineering design for Phase 1											
				design for tindee t											
8	Enstek City	1998-1999	RM 382 million	The project is located on 5544 acres planned as a modern	TH-NSTC Sdn Bhd										
			USD 106 million	technology city Masterplan review, conceptual infrastructure											
⊢				masterplan and detailed design of all infrastructure and utilities											
0	Haron Estate	1997- 2001	RM 50 million	Development for a population size of 150,000	Sime Darby Land										
۳	Haron Estate	Project	USD 14 million	Comprises low density residential development	Sime Daiby Land										
		shelved		Masterplan review, conceptual infrastructure masterplan											
				and detailed design of all infrastructure and utilities											
40	John Assis Estate	4000	DM 000 ili:	Development of 4 400 by family dividing later by a size and related	Driver Day Oder Dhed								_		
10	Jalan Acob Estate	1996	RM 209 million USD 58 million	Development of 1,402 ha for industrial lot, housing and related social uses. Masterplan review, conceptual infrastructure	Prime Bay Sdn Bhd										
			222 30 111111011	masterplan and detailed design of all infrastructure and utilities										<u> </u>	
				•											
11	Ebor Estate	1996	RM 46.8 million	Development of 155 ha for integrated township development	Lengkap Teratai								0		
\vdash			USD 13 million	Masterplan review, conceptual infrastructure masterplan and detailed design of all infrastructure and utilities									-		
1			+	masterplan and detailed design of all littlestructure and utilities										<u> </u>	
12	Bukit Tasik Serendah Development	1996-2001	RM 46.8 million	Development of 790 ha of hilly and forested terrain for	Ombak Kayangan Sdn Bhd					<u> </u>					
	·		USD 13 million	residential, recreational and institutional uses											
<u> </u>			-	Masterplan review, conceptual infrastructure											
\vdash				masterplan and detailed design of all infrastructure and utilities										 	
13	Housing Development for Sector 4,	1993	RM 28.8 million	Residential development. Masterplan review, conceptual infrastructure	Ministry of Housing									\vdash	
	Bukit Damansara (1780 ac)	shelved	USD 8 million	masterplan and detailed design of all infrastructure and utilities	, , , , , , , , , , , , ,				Ľ						
L	0: UED T	1005 155	D14.40: ::::		0: 1150.5				Ļ					L	
	Sime-UEP-Terrace Housing on Phase 29, 30, 34 & 35	1993 - 1994	RM 104 million	New township development for housing, commercial and	Sime-UEP Development										
	UII FIIdSE 29, 3U, 34 & 33		USD 29 million	recreational facilities, Infrastructure planning, design and construction										 	
15	Putera Heights	1993	RM 230 million	Mix development township for housing, commercial, industrial,	Sime UEP Development Sdn Bhd					<u> </u>					
		on-going	USD 64 million	institutional and recreational. Infrastructure planning and preliminary											EEC -
				design completed. Detailed design in progress.											220

	URBAN INFRASTRUCTUR		APF	PROA	СН		S	SERVICES							
NO	PROJECT	YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	CONVENTIONAL	DESIGN & BUILD	PRIVATISATION	LANNING/STUDY	PRELIMINARY	DETAILED DESIGN	CONSTRUCTION SUPERVISION	CONTRACT	PROJECT	ENVIRONMENTAL
	Nilai New Township (5000 ac)	1992-1995	RM 37.8 million	An integrated township with residential, industrial,	NSIDC			<u> </u>	<u> </u>			00	02		
	,		USD 10.5 million	commercial and institutional, Detailed design,					ľ				T .		
				cost estimation of all civil infrastructure works in Phase I											
17	Kundang Estate Development (980 ac)	1991-ongoing	RM 82.8 million	Development on 996 acres for an integrated township development.	Kundang Properties		-	-							-
17	Rundang Estate Development (980 ac)	1991-ongoing	USD 23 million	Preliminary and detailed design, cost estimates, tender documentation	Rundarig Froperties										+
			COD 20 million	and construction supervision of all civil infrastructure works											
18	Brooklands Industrial Estate (2500 ac)	1991-1992	RM 238 million	Development of 500 acres for housing, and industrial lots	Akurjaya Sdn Bhd										-
	Discondinate industrial Estate (2000 do)	1001 1002	USD 66 million	Preliminary infrastructure masterplan.	7 marjaya Gan Bria										
19	Desa Tun Hussein Onn (120 ac)	1991- 1994	RM 18 million	Development of 66 acres for housing-medium and high rise	Ministry of Defence										1
13	Deca Tarrinasciii Oriii (120 ac)	1001-1004	USD 5 million	apartments	willing of Deletice										†
				Detailed design, cost estimation of all civil infrastructure works											
20	Toman Catiousanaa	4000 4004	DM 20 0:	Township dovelopment	IOD Coliceration					_					\perp
∠0	Taman Setiawangsa	1989-1994	RM 28.8 million USD 8 million	Township development Detailed design, cost estimation of all civil infrastructure works	I&P Setiawangsa										+
			OOD 0 IIIIIIOII	Detailed design, cost estimation of an civil minastructure works											\vdash
21	UEP Subang Jaya Development (1720 ac)	1987-1998	RM 209 million	1800 acre township for a population of 150,000 people.	United Estates Project							0			
			USD 58 million	Phase 1- 4											
				Detailed engineering and supervision services for earthworks,			-	-	┡						<u> </u>
				roads, bridges, sewerage, water supply and highway interchanges					-						
22	Majlis Daerah Machang, Jeli, Pasir	1987-1988		Infrastructure Sector Study covering the 4 districts. Structure plan study	State Town and Country										\vdash
	Putih and Tanah Merah Structure Plan			on utilities provision, adequacy and implementation plans upto year 2005	Planning Department										
															<u> </u>
23	Taman Ehsan Scheme	1987-1989	RM 32.4 million USD 9 million	Development on ex mining land Study, detailed investigations, design	Usaha Ehsan Sdn Bhd										
			OSD 9 Million	and construction supervision of sewerage and drainage systems											+
24	Segambut Jaya Housing	1985-	RM 28.8 million	A township for a population of 23,000, on a land area of 80 acres	Segambut Jaya Sdn Bhd										
	Project (30 ac)		USD 8 million	Preliminary and detailed engineering design for infrastructure works,	•										
				such as earthworks, roads, drainage, water supply and sewerage			_	_	_						<u> </u>
25	Town 35, DARA (950 ac)	1985-1987	RM 93.6 million	Township planned for smallholders in collaboration with FELDA	DARA										
20	10W1 33, DAICA (330 ac)	1303-1307	USD 26 million	Preliminary and detailed infrastructure design,	DAIVA										\vdash
				and tender for all civil infrastructure											
	D 1 7 D 1 (010)				0:: 11 !! //										
26	Bandar Tun Razak (240 ac)	1984-1985	RM 104 million USD 29 million	640 acres for development into a new township Preliminary engineering studies infrastructure works	City Hall, Kuala Lumpur										
			03D 29 111111011	Premimary engineering studies infrastructure works					 						-
27	Kg Pasir/Wardieburn Project	1984-1990	RM 93.6 million	Township development, Preliminary and detailed engineering	Peremba and City Hall										
			USD 26 million	design for all infrastructure works, structural design of	Kuala Lumpur										
				housing units, roads, geotechnical studies and designs					-		_				
28	Bandar Baru Wangsa Maju (980 ac)	'1983-1992	RM 97.2 million	Integrated township development. Detailed design, cost estimates,	PGK										+
		.300 1002	USD 27 million	tender documentation and construction supervision of all civil works	. 510										
															\Box
29	Gonggang Estate	1983-1989		Integrated township development. Detailed design, cost estimates,											<u> </u>
				tender documentation and construction supervision of all civil works						-					+
30	Setapak Heights Development Project	1983	RM 18 million	Integrated township development. Preliminary and detailed	Setapak Heights Development										
			USD 5 million	engineering design for infrastructure works, such as earthworks,	Sdn Bhd				Ľ			_			
				roads, drainage, water supply and sewerage											
31	Wardieburn Housing Project	1977-1980		Integrated township development. Preliminary and detailed engineering	Ipoh Garden Sdn Bhd					_					
υı	Transcours Flouding FlogCot	1911-1900		design for infrastructure works, such as earthworks, roads, drainage,	ipon Garden Gun Bild				-						EEC
				and the second s											

	URBAN INFRASTRUCTURE	<u> </u>				APF	ROA	СН		S	COPE	OF S	ERVICI	S	
NO		YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	CONVENTIONAL DESIGN	DESIGN & BUILD	PRIVATISATION	PLANNING/STUDY	PRELIMINARY DESIGN	DETAILED DESIGN	CONSTRUCTION SUPERVISION	CONTRACT MANAGEMENT	PROJECT MANAGEMENT	ENVIRONMENTAL
	INDUSTRIAL DEVELOPMENT														
1	Cat Lai Development	1996-1997	NA	Development of 1130 ha S-E of Ho Chi Minh city to support	Renong Overseas Corp.										
				a 250,000 population											
				Engineering consultancy for infrastructure masterplan , port											
				developmen and environmental issues and guidelines											
_	Kulina III Tarah Industrial Bards (4.450 har)	4000	DM 440 million	Development of 4450 by inter-ship to ab industrial words D.O. D.O. and a single	Dort done Konstitut								_		
	Kulim Hi-Tech Industrial Park (1450 ha.)	1992	RM 140 million USD 39 million	Development of 1450 ha into a hi-tech industrial park, R & D Centre and commercial centre. Infrastructure masterplan for the development.	Perbadanan Kemajuan Negeri Kedah								+		
		on going	บอบ วล เมเเเดม	Detailed design, cost estimates, tender documentation and	Negen Kedan										
				construction supervision of all civil works in Phase I											
				CONSTRUCTION Supervision of all Civil Works III Fridse I											
3	Sime Darby Light Industrial Estate (30 ac)	1991-1993	RM 46.8 million	Development of 70 acres for light industries	Sime UEP										
	Office Darby Light industrial Estate (50 ac)	1331-1333	USD 13 million	Detailed design and construction supervision of	Offic OLI										
			COD TO THIRDIT	infrastructure, structural and M & E works.											
				initial distance of strandard and in a 2 month.											
4	Gunung Rapat Industrial Estate	1984		74 acres for the development of light industries	Perak State Economic										
				Infrastructure masterplanning, design of all works	Development										
				, , ,	•										
	RESORTS AND HOTEL DEVEL	OPMENT													
1	Allson Kelana Condominium Development	1991-1993	NA	Resort and hotel development	WTW										
				Detailed design, cost estimation of all civil infrastructure works											
	Staffield Country Resort	1990-1993	NA	Development of 335 acres for golf resort, housing and other	Staffied Estate Sdn Bhd										
	Staffield Country Resort	1990-1993	NA	related uses	Staffied Estate Sdn Bhd	0			•	•	•	•			
	Staffield Country Resort	1990-1993	NA		Staffied Estate Sdn Bhd	<u> </u>			•		•				
	·			related uses Detailed design, cost estimation of all civil infrastructure works											
	Staffield Country Resort Desaru International Resorts (4800 ac)	1990-1993 1989-1991	RM 569 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling	Desaru International	0									•
	·			related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres											•
	·		RM 569 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works	Desaru International										•
	·		RM 569 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres	Desaru International										•
3	'Desaru International Resorts (4800 ac)	1989-1991	RM 569 million USD 158 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned.	Desaru International Resorts Sdn Bhd					•	•				•
3	·		RM 569 million USD 158 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and	Desaru International										•
3	'Desaru International Resorts (4800 ac)	1989-1991	RM 569 million USD 158 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities	Desaru International Resorts Sdn Bhd					•	•				
3	'Desaru International Resorts (4800 ac)	1989-1991	RM 569 million USD 158 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and	Desaru International Resorts Sdn Bhd					•	•				
3	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development	1989-1991	RM 569 million USD 158 million RM 37.8 million USD 10.5 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd					0					•
3	'Desaru International Resorts (4800 ac)	1989-1991	RM 569 million USD 158 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities	Desaru International Resorts Sdn Bhd					•	•				
3	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development	1989-1991	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land.	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd					0					•
3	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development	1989-1991	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club					0					•
3	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development	1989-1991	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites.	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd					0					•
3	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development Selangor Turf Club	1989-1991 1989-1993 1989-1993	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites. All facilities is to serve a Feasibility study, preliminary design cost	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club					•					•
3 4 5	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development Selangor Turf Club	1989-1991 1989-1993 1989-1993	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites.	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club					•					•
3 4 5 6	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development Selangor Turf Club Pulau Tioman Tourism Master-plan	1989-1991 1989-1993 1989-1993	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites. All facilities is to serve a Feasibility study, preliminary design cost estimation for all civil infrastructure works.	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club LKNP, Pahang					•					•
3 4 5 6	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development Selangor Turf Club	1989-1991 1989-1993 1989-1993	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites. All facilities is to serve a Feasibility study, preliminary design cost estimation for all civil infrastructure works. A 5,000 acre resort development with housing, condominiums,	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club					•					•
3 4 5 6	'Desaru International Resorts (4800 ac) Telok Datai Resorts Development Selangor Turf Club Pulau Tioman Tourism Master-plan	1989-1991 1989-1993 1989-1993	RM 569 million USD 158 million RM 37.8 million USD 10.5 million RM 28.8 million	related uses Detailed design, cost estimation of all civil infrastructure works A coastal resort development on 17km of beachfront totaling 4,000 acres Detailed design, cost estimation of all civil infrastructure works Project abandoned. A 1,800 acre resort development with hotels, golf course and resort facilities Detailed design, cost estimation of all civil infrastructure works A race course on 250 acres of ex-mining land. Preliminary and detailed design, cost estimates, tender documentation and construction supervision of all civil infrastructure works Study on the development of alternative tourist sites. All facilities is to serve a Feasibility study, preliminary design cost estimation for all civil infrastructure works.	Desaru International Resorts Sdn Bhd Telok Datai Resorts Sdn Bhd Selangor Turf Club LKNP, Pahang					•					

Within scope of Services

3.0.6_MATRIX URBAN.xls Page 3

PROJECT COST PROJ	URBAN INFR	ASTRUCTURE					APP	ROA	СН		so	OPE	OF SE	RVICE	s	\Box
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Descript (March Descript (SEWERAGE A	ND WASTE WATE	R													
2 Amus 21 Progret 2 Progret 3 Nethors Sewerage Project 2 4 Amus 21 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			2012-on going	RM 60 Million												
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Neg CSTP, LOI 150 2006-00 pages 2006-00	3 National Sewerage Project	ct 2	2011 – on going	RM 983 Million	The project involves the decommissioning of the existing aerated								0			\neg
A Mary CSFP_Lot 190 2008-on perior ARMS million Destgn. control of Servergi Perior Servergi Services Department Servergi Services Department				USD 298 Million		and Green Technology										
Belling CSTP_Lot 130																
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Bendub Urban and Regional Sharly	5 Miri City Wastewater Sys	tem Masterplan Study	2008-2010													
British Usbra and Regional Study																
Value Valu	6 Rintulu Urban and Region	nal Study	3003 3004			Rintulu Development authority										-
Semenage	0 Biritulu Orban and Neglor	iai Study	2003-2004			Bilitulu Development authority										
Weath management Weath manag																
The Study comprised a review of design students, control surveys, control and future requirements, development guidelines options, servers, and storage Project 2001-2004 FM 78 million USD 22 million USD 23 million USD 23 million USD 24 million USD 24 million USD 23 million USD 24 million USD 24 million USD 24 million USD 25 million USD 2					* drainage											
Current and future requirements, development guidelines options, and ander You Roade (100,000 STP) MR 78 million Design, construction of Sewage Treatment plants Sewages Services Department Design, construction of Sewage Treatment plant and Sewage Services Department Design, construction of Sewage Treatment plant and Sewages Services Department Design, construction of Sewage Treatment plant and Sewages Services Department Design, construction of Sewage Treatment plant and Sewages Services Department Design, construction of Sewages Treatment plant and Sewages Services Department Design, construction of Sewages Treatment plant and Sewages Services Department Design, construction of Technology Services Departme																
National Sewerage Project																
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Sewerage Services Department	7 National Sewerage Project	ct	2001-2004		, , , , , , , , , , , , , , , , , , , ,											
Description Design Desig	a) Bandar Tun Razak (100,	,000 STP)			Design, construction / upgrading of sewage treatment plants	,				0						
200 2004 200 2004 200 2004 2004 2004 2004 2005 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 200	1) I() 0 1 00TF (000 0	00 0075)	2000 2005			Sewerage Services Department										
Sa Nylor STP		00 CSTF)				Government of Malaysia										-
2000 SN Nylor STP	c) dura em		2000-2004													
Bandar Puchong 2000 RM 135 million Design, construction of upgrading sewage treatment plant and Covernment of Malaysia	d) Sg Nyior STP		2000-2005										0			\neg
USD 37.6 million Design, construction of network distribution Sowerage Services Department Government of Malaysis																
10 10 10 10 10 10 10 10	e) Bandar Puchong		2000													
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g) Sg Nyjor Network 2006-2005 RM 68.4 million LSD 19 million LSD 19 million Sewerage Services Department Malaysia Sewerage Services Department Sewerage Services Services Department Sewerage Services Se	i) dura Network		2000-2010		Design, construction of network distribution											-
Beigas Facility at Jelutong STP 2006-2007 RM 28 s million USD 8 million Putrajaya Wastewater Project 1997-2000 RM 141 million Putrajaya, Selangor USD 40 million Exhibit Selate - 500 acres 1996-2007 RM 97 million USD 2,5 million USD 2,5 million USD 2,5 million RM 48 million USD 10,3 million Putrajaya, Selangor USD 2,5 million USD 2,5 million USD 10,3 million USD 10,3 million RM 86 million USD 10,3 million USD 10,3 million USD 10,3 million USD 10,3 million USD 2,5 million RM 86 million USD 10,3 million USD 10	g) Sg Nyior Network		2006-2005	RM 68.4 million	Design, construction of network distribution					0						
Solution							_									
9 Putrajaya Wastewater Project 1997-2000 RM 144 million USD 40 million 10 Ebor Estate - 500 acres 1996-2007 RM 9 million USD 45 million 10 Ebor Estate - 500 acres 1996-2007 RM 37 million USD 10,3 million 10 USD 10,3 million 10 USD 10,3 million 10 USD 24 million 10 USD 24 million 10 USD 25 million 10	8 Biogas Facility at Jeluton	gSIP	2006-2007		Design and construction	WWE Sdn BHd										
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Ebor Estate - 500 acres 1996-2007 RM 9 million USD 2,5 million USD 1,5 mil		9	2000			,.,										
Putra Heights -1800 acres 1996-2007 RM 37 million USD 10,3 million and network distribution USD 24 million USD 24 million USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a population catchment of 275,000 Seremban USD 25 million With a			1996-2007		Design, construction f sewage treatment plant and	Sime UEP					<u> </u>					
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12 Enstek Cybercity- Infrastructure Masterplan 1997-1998 RM 86 million USD 24 million USD 24 million USD 25,9 million USD 16 million Design, construction f sewage treatment plant and and network distribution Add. 6 million USD 16 million USD 12,4 million USD 14 million 15 minutu 16 Conceptual Plan for Development of Sewerage System and Vaste-water Treatment Facilities at Ipoh, Perak 1993-1994 1983-1985 RM 147.6 million USD 41 million USD 41 million USD 48 million With a population catchment of 275,000 TH-NSTC Sdn BHd TH-NST Substantion TH-NST Substantion TH-NST Substantion TH-NST Substantion TH-NST Substantion	Putra Heights -1800 acre	S	1996-2007			Sime UEP										-
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17 Bintulu Sewerage Project 1983-1985 RM 147.6 million Study cover an area of 9089 sq km Government of Malaysia Bintulu USD 41 million for a population of 112,000 Seremban Sewerage Project 1982-1993 RM 172.8 million Study covering an area of 415 sq km. Majlis Perbandaran USD 48 million with a population catchment of 275,000 Seremban Sewerage Project Seremban Sewerage Project USD 48 million with a population catchment of 275,000 Seremban Sewerage Project Sewerage Project Severage Project Severage Project Sewerage Project Severage Project Severage Project Sewerage Project Severage Project Severag			1993-1994			Ipoh Council										
Bintulu USD 41 million for a population of 112,000 Majlis Perbandaran Majlis Perbandaran USD 48 million Study covering an area of 415 sq km. Majlis Perbandaran USD 48 million with a population catchment of 275,000 Seremban			1002 100F	DM 147.6 million		Covernment of Malaysis										\dashv
18 Seremban Sewerage Project 1982-1993 RM 172.8 million Study covering an area of 415 sq km. Majlis Perbandaran		L	1903-1985			Government of Malaysia										-
Seremban USD 48 million with a population catchment of 275,000 Seremban EEC		ject	1982-1993			Majlis Perbandaran									<u> </u>	
		•			with a population catchment of 275,000											EEC

URBAN INFRASTRUCTURI	E				API	PROA	СН		S	OPE	OF SI	RVICE	ES	
NO PROJECT	YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	CONVENTIONAL	DESIGN & BUILD	RIVATISATION	LANNING/STUDY	PRELIMINARY	DETAILED DESIGN	CONSTRUCTION SUPERVISION	SONTRACT	PROJECT	ENVIRONMENTAL
WATER SUPPLY	ILAK	TROUEGT COUT	TROUEST BETALLO	CEIEIT	00			-	A ()		0 %	02	0.2	ш
Merbau Chondong Water Supply Scheme	2006	RM 3.6 million	Extension of project to include 2 reservoirs	Air Kelantan Sdn Bhd										
Kelantan- Phase 1 Extension	2000	USD 1 million	(1 mgd reservoire and .5 mgd) and pipeline of diameter	7 III Troidinair Gail Brid										
			ranging from 200 to 600 mm with a length of 25 km.											
Bintulu Urban and Regional Study	2003-2004		Project included the following components	Bintulu Development authority										
2 Sintara Orban ana Nogronai Otaay	2000 200 :		* water	Sintala Sevelopinent datienty										
			* sewerage											
			* drainage											
			* waste management											
			The Study comprised a review of existing situation,											
			conditions survey, current and future requirements,											
			development guidelines, options, implementation										-	-
			schedules, priority projects and cost estimates											
3 SPUR Pipe-line in Bukit Bauk,	1997-1999	RM 18 million	Construction of 1000mm dia. Mild steel concrete	Petronas Bhd.										
Dungun, Terengganu	1001-1009	USD 5 million	pipe line of 6km length	r cuonas bilu.										
Pungun, reiengganu		ווטווווווווווווווווווווווווווווווווווו	pipe inte of okili letigut										-	
4 Merbau Chondong Water Supply Scheme	2002	RM 62 million	Water treatment and distribution project comprising raw	Air Kelantan Sdn Bhd										
Kelantan		USD 17.2 million	water intake, pumping station. 40mld treatment plant,											
			reservior and 70km pipeline of 400mm to 800mm dia.											
5 Dungun Water Cumply Designs	1007 1000	DM 445:	Works to most industrial and domestic description	Water Warder David										-
5 Dungun Water Supply Project	1997-1999	RM 115 million	Works to meet industrial and domestic demand up to	Water Works Dept										_
Phase 2 Works		USD 32 million	2015- upgrading of intakes treatment plants,	Terengganu State										
Dungun Terengganu			new intakes pumping facilities, transmission pipelines Storage reservoirs, central telemetry system											
			pripomico otorage reservorio, central telemetry system											
6 Sg Selangor Water Supply Scheme	1989-1992	RM 144 million	Design of 33.8 km of pipelines varying from	Water Works Department,										
Jabatan Bekalan Air		USD 40 million	dia. 1100mm to 1600mm & 3 reinforced concrete	Selangor State										
			reservoirs of 5mgd each	2 2 2000										
7 Kg Puah Redevelopment Kuala Lumpur	1986-1988	RM 28.8 million	Design and construction supervsion of water supply	City Hall										
		USD 8 million	scheme for the entire development including reservoirs											_
		-	and reticulation system											-
8 Proposed Development on Lot 120,	1985-1987	RM 43 million	Design and construction aurorusion of water supply	KTG										
Genting Highlands	1985-1987	USD 12 million	Design and construction supervsion of water supply scheme for the entire development including reservoirs and	KIG										
Bentong, Pahang		OOD 12 IIIIIION	reticulation system											
portong, running			- Sacarda Joseph											
9 Jalan Acob Estate- conceptual study	1992-1995	RM 12.6 million	Design and construction supervsion of water supply	Sime UEP										
5000 acres		USD 3.5 million	scheme for the entire development including reservoirs and											
			reticulation system for an rea of 5000 acres											
														<u> </u>
10 Putera heights- 1800 acres	1997-2007	RM 20.88 million	Design of 4 reservoires of 2.65 mgd and supply main	Sime UEP										\vdash
		USD 5,8 million	of 900 mm dia											
11 Lengkap Teratai- 540 acres	1997-2007	RM 12.6 million	Design of reservoir of 2. mgd and supply main	Sime UEP										
TT Echighap Totalar 040 acros	1331-2007	USD 3,5 million	of 700 mm dia	Sinc ou										EEC
<u> </u>		000 9,5 111111011	Within scope of Services	1									<u> </u>	

	URBAN INFRASTRUCTURE					APP	ROA	СН	SCOPE OF SERVICES						
NO	PROJECT	YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	ONVENTIONAL	ESIGN & BUILD	RIVATISATION	LANNING/STUDY	PRELIMINARY DESIGN	ETAILED DESIGN	CONSTRUCTION SUPERVISION	CONTRACT	PROJECT MANAGEMENT	ENVIRONMENTAL
NO	DRAINAGE / FLOOD MITIGATION		PROJECT COST	PROJECT DETAILS	CLIENI	OD			_	~ 0		ပေဖ	0 ≥	0.≥	ш
1	Lahad Datu Airport Study	2011-2012		Regional Flood Study or Sg Silabukan	Ministry of Transport										
	Regional Flood Study)						
	M. J. A. 101 J	2010 2010		D : 151 101 1 (D : M : 100 D : :					_						
2	Mukah Airport Study Regional Flood Study	2012-2013		Regional Flood Study for Batang Mukah / Sg. Petain	Ekonomic Planning Unit, PM Dept.										
	regional ribou olduy														
3	Miri Sewerage Masterplan Study	2009-2010		Regional Flood and Low Flow Study of Batang Baram and Sungai Miri	Sarawak State Government										
	Regional Flood and Low Flow Study of														
<u> </u>	Batang Baram / Sungai Miri														
4	Bintulu Urban and Regional Study	2003-2004		Project included the following components	Bintulu Development authority										
				* water)						
				* sewerage											
				* drainage											
-				* waste management The Study comprised a review of existing situation,											
				conditions survey, current and future requirements,											
				development guidelines, options, implementation											
				schedules, priority projects and cost estimates											
<u> </u>	On John Flood Militarian	0000		Decision of existing decisions and the modeling of	Laborate December of the control of										
-5	Sg. Jeluh Flood Mitigation	2003		Review of existing drainage system and formulation of a long term solution for the flooding and drainage plan	Jabatan Pengairan dan salinan Selangor								_		
				a long term solution for the nooding and draidings plan	Colorigor										
6	Flood Mitigation Scheme, Kuala Kedah Town	1992-1995	RM 75.6 million	The study area covers the whole Sg .	Kedah State Government										
			USD 21 million	Keladi Catchment-20sq. km											
	Flord Militarian Calculation	4000 4005	DM 47.5 III:	The study area account the order of	Kadah Otata Oassanaant										
	Flood Mitigation Scheme, Sq Keladi, Kedah	1992-1995	RM 47.5 million USD 13.2 million	The study area covers the whole Sg . Keladi Catchment-20sq. km	Kedah State Government	<u> </u>									
	og reladi, redali		00D 13.2 111111011	reladi Odlerinent-2094. Kiri											
8	Taiping Main Drainage System	1992-1993	RM 11.5 million	The study covers the main drainage	Majlis Daerah Taiping										
			USD 3.2 million	system of Taiping town centre											
9	Caramban Taum Flood	1987-1993	DM 26 million	Design of 7 km of lined when starrowater designer	Mailia Darbandaran										
9	Seremban Town Flood Mitigation Project	1967-1993	RM 26 million USD 7.2 million	Design of 7 km of lined urban stormwater drainage channels , replacement of a 30m span bridge and	Majlis Perbandaran Seremban										
	initigation i roject		OOD 7.2 IIIIIIOII	6 nos. of 15 m span bridges	Ceremban										
10	Extension of Telok Anson Town	1980-1982	RM 317 million	The project covered 300 acres affected	Perak State				0						
		-	USD 88 million	by erosion and inundation by Sg. Perak	Government										
11	Feasibolity Study including Preliminary Engineering on	1982-1987	RM 173 million	Project covered 415sq km with a 2010 population	Majlis Perbadanan Seremban										
Ë	Sewerage and Drainage System for Seremban	1002 1001	USD 48 million	of 270,000											
	g g														
12	Masterplan Study and Detailed Design of Sewerage	1983-1988	RM 148 million	Study cover an area of 9089 sq km	Government of Malaysia										
\vdash	and Drainage System for Bintulu and its Environs		USD 41 million	for a population of 112,000										E	EC

Within scope of Services

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	URBAN INFRASTRUCTURE					APF	ROA	СН	SCOPE OF SERVICES							
NO	PROJECT	YEAR	PROJECT COST	PROJECT DETAILS	CLIENT	CONVENTIONAL DESIGN	DESIGN & BUILD	PRIVATISATION	PLANNING/STUDY	PRELIMINARY DESIGN	DETAILED DESIGN	CONSTRUCTION SUPERVISION	CONTRACT MANAGEMENT	PROJECT MANAGEMENT	ENVIRONMENTAL	
	SOLID WASTE MANAGEMENT															
1	Sanitary Landfill at Labuan,	2010	RM12 million	The scope of works include :-	Perbadanan Labuan											
	Wilayah Persekutuan Labuan	on - going	USD 3.2 million	* Pre Tender and Detailed Design Stage												
				* Tender Stage												
				* Construction Supervision Stage												
				* Defect and Liability Stage											-	
2	Sanitary Landfill at Pagoh, Muar, Johor	2008	RM38.5 million	The scope of works include :-	Jabatan Pengurusan Sisa Pepejal										₩	
	Sanitary Landilli at Pagon, Muar, Johor	2006	RIVISO.5 ITIIIIOTI	* Pre Tender and Detailed Design Stage	Negara, Ministry of Housing										\vdash	
				* Tender Stage	and Local Government										+	
				* Construction Supervision Stage	and Eddar Government										 	
				* Defect and Liability Stage												
				, ,												
3	Bintulu Urban and Regional Study	2003-2004		Project included the following components	Bintulu Development authority											
				* water, * sewerage, * drainage, * waste management												
				The Study comprised a review of existing situation, conditions survey,											↓	
				current and future requirements, development guidelines, options,												
				implementation schedules, priority projects and cost estimates												
4	Lingrading of Incingrators in Kamunting (Parak)	2003	RM 14.4 million	The installation of Air Pollution Control System to EMS	Faber-Mediserve Sdn. Bhd.										+	
	Upgrading of Incinerators in Kamunting (Perak) and Lok Kawi (Sabah)	2003	USD 4 million	The installation of Air Pollution Control System to FMS incinerators and the installation of additional incineration system.	Faber-Mediserve Sun. Brid.										+	
	and Lok Nawi (Gaban)		030 4 1111111011	incinerators and the installation of additional incineration system.											+	
5	Integrated Municipal Solild Waste	2002	NA	Detailed feasibility study for the implementation of a	Jalur Cahaya Sd. Bhd.											
	Management Study for Penang		1	waste management system for Penang State and the												
	, ,			implementation of a thermal waste treatment plant												
	Thermal Solid Waste Treatment Plant (Incinerator)	2000	RM 1.4 million	Detailed studies on waste characterisation and	Yachiyo Engineering Co. Ltd.			0	0							
	at Kg. Bohol, Broga, Selangor		USD 390 million	waste disposal for Klang Valley Preliminary design for incinerator												
									_						—	
	Solid Waste Management Study-Southern Region	1996-1997	NA	Waste management study for the Study area of Melaka,	Southern Waste			<u> </u>							₩	
	Southern Region of Pen. Malaysia			Negeri Sembilan and Johor State. Detailed waste charactarisation and disposal study.	Management Sdn Bhd				-						₩	
				charactansation and disposal study.											+	
8	Contingency Plan for the Transportation, Storage and	1995-1997	NA	The project covers the main roads and highways in	Department of Environmental										+-	
	Disposal of Toxic Waste in Pen Malaysia		1	Malaysia, the origins of such waste to its disposal centre												
				January Company of the Company of th												
9	Sanitary Landfill and Transfer Station	1994-1995	NA	Concessionnaire period of 20 years with a total waste volume of	Gamuda Bhd											
	for the State of Pulau Pinang			1,200 tonnes per day in 1995 to 2,600 tonnes per day in 2015												
															↓	
	Sanitary Landfill and Transfer Station	1993-1994	NA	Development of the Air Hitam Sanitary Landfill site and	Gamuda Bhd										—	
	for the State of Selangor			transfer stations. Waste volumes of 2350 tonnes per day in 1992 to 4520 tonnes in 2007.											₩	
				III 1992 to 4520 torines in 2007.											+	
11	Development of Sanitary Landfill in	1992-1993	NA	Project area of 20.35 ha located on a	Ministry of Housing and											
- ' '	Taiping, Perak	1332-1333	IVA	disused mining land 7.5 km away from Taiping town	Local Government										_	
	raiping, rotati			access mining tand the familiary ment tarping term	Eddar Government											
12	Taiping Local Plan	1992-1994	NA	Local Plan study for the municipality area	Federal Town and Country											
	Perak			of 11,600ha. over the period of 1992-2020	Planning Department											
13	Taman Teknologi Malaysia, Selangor	1991-1992	NA	Development of a Hi-Tech Park complete with R and D services .	Taman Teknologi Malaysia											
									L_						—	
	Petaling Jaya Soild Waste Management Study	1990-1992	NA	Project area includes the whole Municipality of Petaling Jaya	Petaling Jaya Municipal										—	
\vdash	Selangor		-	detailed study of waste characterisation and	Council									-	_	
			-	waste management plans											+-	
			 		Otata Tarra and Occuptor				_						EC	
15	Structure Plan Study for Machang, Jeli, Pasir Puteh	1987-1988	NA	Sector study of the local structure plan for	State Town and Country						1					

Within scope of Services