5 Other Relevant Data

5.1 Memorandum of Agreement

1st Site Survey (08/Sep/2010)

Memorandum of Agreement

between

Preparatory Survey Team (Outline Design Study) and Road Development Authority on

the Project for the Construction of a Bridge across the Batticaloa Lagoon

Both Parties agreed the following items based on the discussion on 8th September 2010.

- (1) The approach road at the western side of the Manmunai bridge shall be adjusted not to create any involuntary resettlement of the local shop.
- (2) Bridge length shall be at least 200m.
- (3) The vertical clearance of the bridge shall be equal to the vertical clearance of the New Kallady Bridge.
- (4) The span length of the main bridge and the side bridge shall be equal or longer than that of the Paddiruppu bridge.
- (5) Bridge design condition are as follows:
 - 1. Design Standard
 - ➤ RDA Bridge Design Manual 1997
 - RDA Geometric Design Standards of Road 1998
 - > British Standard (BS5400)
 - 2. Bridge Width

The width of the bridge and approach road shall be determined based on the agreement between JICA and MOH.

- 3. Basic Concept for Design
 - > High Water Level

High water level will be determined based on the hydrological study done by the outline design study team.

> Bridge Type

Pre-stressed concrete bridge and /or Reinforced Concrete bridge will be adopted for the Project.

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4. Design Load

> Dead Load

Item	Unit	Weight
Reinforced Concrete	kN/m3	25.0
Asphalt Pavement	kN/m3	23.0
Plain Concrete	kN/m3	24.0
Structural Steel	kN/m3	78.5
Earth for embankment	kN/m3	18.0

Ducts to accommodate Public Utilities shall also be taken into account in the design.

5. Live Load

HA, HB-30 live load of the BS5400 shall be applied.

6. Other Load

Other load including seismic coefficient, wind shall be in accordance with the RDA Bridge Design Manual.

7. Material Strength

The strength of material shall be based on the Sri Lankan Standard.

X Vani

Mr. Junji Yasui Chief Consultant

JICA Preparatory Survey Team

(Outline Design Study)

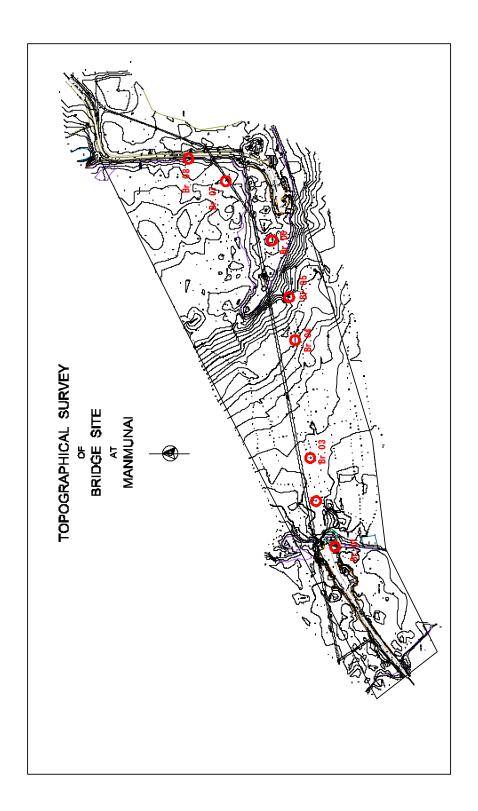
Mr. D.K. Rohitha Swarna

Director Engineering Services

Road Development Authority

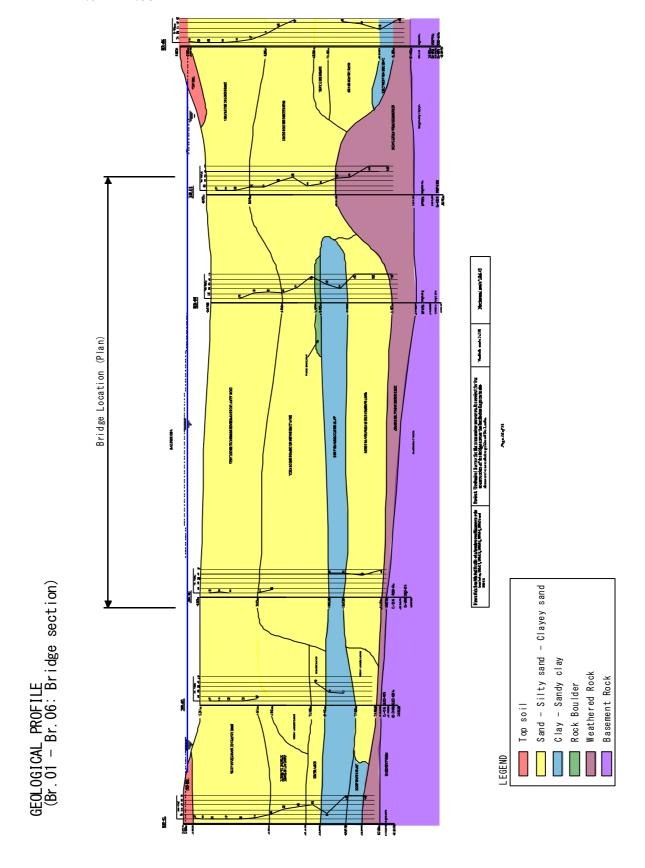
5.2 Geological Survey Result

5.2.1 Location of Boreholes

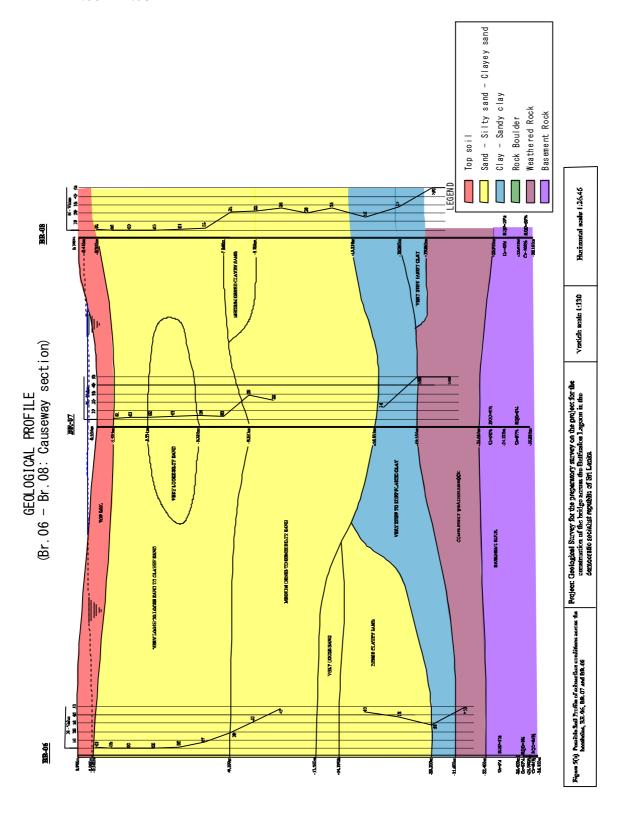


5.2.2 Geological Profile

Br.01~Br.06

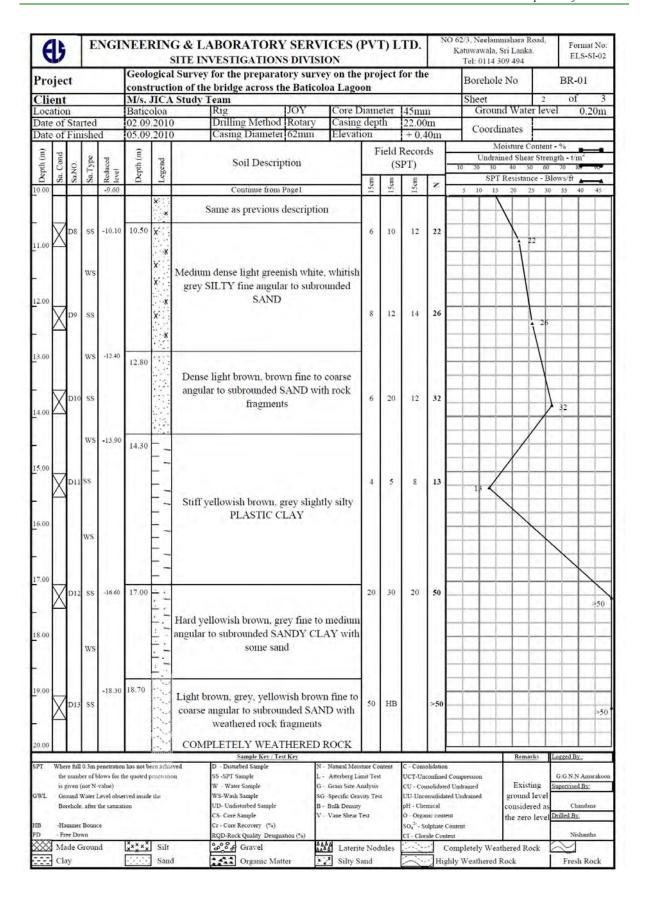






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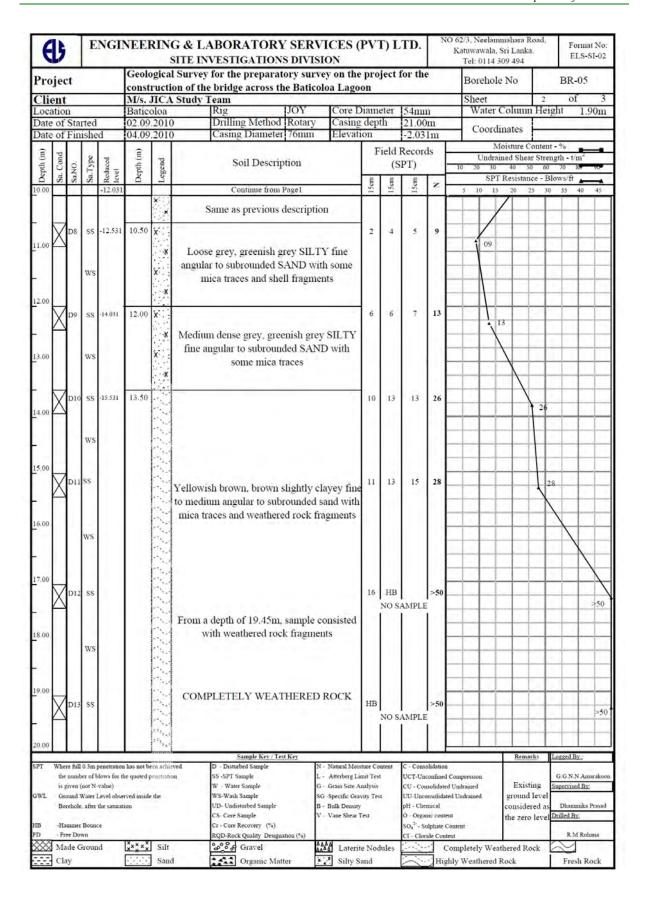
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	X	D3	ss				(6.45-7.50)m sample colour chang whitish brown, light whitish grey c		7	6	7	13			13				
	X	D4	ss	-9.981	7.50	x x x	Medium dense whitish grey, light SILTY fine angular to subrounded to with shell fragments		Ś	7	5	12			12				
00	X	D5	ss ws			x x	(9.00-9.45)m sample consisted with mica traces	n some	5	10	13	23				j	3		
			_				Sample Key / Test Key									Rema	ks L	eged By	u u
L	the is g Gro Bo	numb given (ound V rehole	not N- Vater I after	lows for to value) Level obse the satura	n has not be the quoted erved insid- tion	penetrati	SS - SPT Sample	Natural Moist Atterberg Lin Grain Size An Specific Grav Bulk Density Vane Shear To	nit Test salysis ity Tes		C - Cons UCT-Ur CU - Co UU-Unc pH - Ch O - Orgr SO ₄ ²⁻ - S Cl - Clo	nsolida onsolid emical emic con oulphate	d Comp ed Und ated Un tent Conten	rained drained	g	Exist round onside e zero	ing Si level	nilled By	l By:
N	_	de G	_	A	×××××	Silt	RQD-Rock Quality Designation (%)	A Laterit	145		CI Clo	_		latel.	Weather	in	1.	N.M	conana
	70/01/0	125 C													Wilandha	red Ro	ck /	~	

	15	_		-	Geole		SITE INVESTIGATION I Survey for the preparat			pro	ject 1	for th	e	T	114 309	494	-		S-SI-02
	jeo						on of the bridge across th				•			Bore	ehole l	No		BR-0	14
	ent						Study Team							Shee			2	of	3
Loc					Batic		Rig	JOY	Core D			45mi		Wa	ater Co	olumn l	Ieigl	it :	2,40m
	_	Sta			05.09				Casing		th	21.00		Co	ordin	ates -			
Jate	10	Fin	ishe	d	08.09	.2010	Casing Diameter	62mm	Elevati			-2.48			Mai	sture Cor	tont	94	_
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend	Soil Descrip	otion		F		Recor PT)	ds -	10 20		d Shear 5			90
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0.00	\vdash	Н	-	-12.481		57.17	Continue from	Pagei		1	- 1	1	-	5 10	15	20 25	30	35 40	0 45
					1	X X	Same as previous	description	n								t	N	
	X	D6	SS			X	Rock Boulder:		1	7	13	34	47				1	\Box	/
1.00		1				h-	Oracle Control				NO S.	AMPLI	E			\perp	1	-	47
				-13.481	11.00	M	Grey, yellowish brown R	OCK BO	ULDER				1 1	-	-		-	\vdash	/
			WS		E	N							1	+	-	-	-	1	
				-13.981	11.50	-							H				+	/	
2.00						- 7							L		-	+	1	\leftarrow	-
	X	D7	SS							8	13	17	30	-	-		1/3	0	-
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		ws				- 1	Very stiff grey, brow	n slightly	silty					-	-	11		\vdash	-
3.00						-~	PLASTIC C						l l	-	-	1	+	\rightarrow	-
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4.00	\vdash		WS -16 781									Ιŀ	\rightarrow	-	150	+	\rightarrow	-	
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			×									l l	-	-	-	+	+	750	
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6.00													Ιŀ	+	_	++	+	+	-
			ws x					11 T. M.				Ιŀ				+		-	
						х.	Very dense dark grey, bla clayey SILTY fine to c						Ιŀ	1			+	+	+
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7.00						î	subrounded 3	AIND		1100			-				+	\vdash	
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8.00						· · · ·													
0.00		ws X																	
9.00						X													
- set	7	D11	55	-21.481	19.00	1				50	НВ		>50						
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0.00						1									-				
	_					beniend	Sample Key / Te						• •			Remark	Lo	gged By	
T		is given (not N-value)							Natural Mois Atterberg Lu			and the second	solidation	ompression	- = 1			J.G.N.N.	Amarako
		enumber of blows for the quoted penetration SS -SPT Sample given (not N-value) W - Water Sample round Water Level observed inside the WS-Wath Sample							Grain Size A			ÇU - Ço	nsolidated	Judramed		Existin	Su	pervised	
WL			iven (not N-value) W - Water Sample G - Grain S und Water Level observed inside the WS-Wash Sample SG - Specifi ehole, after the saturation UD- Undisturbed Sample B - Bulk D						Specific Grav		it.			Undrained		ground le		Dhammi	ha D
	Во	orehole, after the saturation UD- Undisturbed Sample B - Bulk De CS- Core Sample V - Vane Sh ammer Bounce Cr - Core Recovery (%)					Bulk Density Vane Shear T			pH - Che O - Orga	emical mic content			onsidere he zero le	vel Dr		aca Prasa		
В										50 ₄ 3- 5	ulphate Co	ntent	ľ	Letto It					
D	_	1100	amer Bounce Cr - Core Recovery (%) e Down RQD-Rock Quality Designation (%)					A A .			Cl' - Clor	ride Conter		-	-	-	RME	Rohana	
(XX)	Ma	ide G	roun	d	XXCXX	Silt	ൂര് Gravel	44	Laterit	e Noc	hules		- Co	mpletely	Weath	ered Rock		~	

Pro	iec	t				ogical	Survey	for the pr	repara		ey on the		ect f	or the	e	\top	o114 rehol		\neg		BR-	04	1
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oca			_		Batic	_	Study	Rig		IJOY	Core I	Diam	eter	45m	n		Vater	Colu	mm			_	10m
Date			ted			_			Method		Casing			21.00									-
				d	08.09	.2010		Casing D	iamete	62mm	Elevat			-2.48	Im	7 (Coord	mate	S				
0	-			- 1	0	П						F	ield I	Recor	ds			loistu	_				_
h (n	onc	o.	ype	poo	n)	pu		Soil	Descri	ption				PT)	_	10	Undra 0 30	ined S		Streng 60	gth - t/	m	_
Depth (m)	Sa. Cond	Sa.N	Sa.T.	tedu	Cept	cgc						g	-		-	10	- 20				ows/ft		30-
0.00	·	٠,	V.	-22.481	_	-		Contin	nue from	Page 2		15cm	15cm	15cm	z	5	10 15					40	45
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	ı						angula	r to subrou	nded s	and with	mica and												T
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1.00						2	Mica																
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				-23.981	21.50	M															T		T
2.00			Cŝ			M			000														
			Yellowish brown, whitish grey, bl. grey medium grained, highly frac strongly discoloured BIOTITE GN Yellowish brown, whitish grey, bl. grey medium grained, highly frac strongly discoloured BIOTITE GN					. 1								T							
				grey medium grained, highly fract strongly discoloured BIOTITE GN Yellowish brown, whitish grey, bla grey medium grained, highly fract strongly discoloured BIOTITE GN 25.481 24.00 The borehole was terminated at a de		Cr=	35%	RQD	=0%								1						
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.00				Yellowish brown, grey medium to angular to subrounded sand with mi weathered rock fragments Mica content increased with the d COMPLETELY WEATHERED R ROCK LEVEL Yellowish brown, whitish grey, bla grey medium grained, highly fract strongly discoloured BIOTITE GN Yellowish brown, whitish grey, bla grey medium grained, highly fract strongly discoloured BIOTITE GN The borehole was terminated at a de 24.00m Sample Key / Test Key The penetration has not been achieved D - Disturbed Sample N - 25.481	SNEISS												T						
	П				denth of							\neg					Т						
	П		Soil Description Soil Description Soil Description Soil Description Continue from Page 2 Yellowish brown, grey medium to angular to subrounded sand with meathered rock fragments Mica content increased with the COMPLETELY WEATHERED FROCK LEVEL Yellowish brown, whitish grey, bliggrey medium grained, highly fractstrongly discoloured BIOTITE GN Yellowish brown, whitish grey, bliggrey medium grained, highly fractstrongly discoloured BIOTITE GN The borehole was terminated at a discoloured was terminated at a discoloured by the content of the past of		depuror							\neg					1						
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5.00	П											\neg	\perp				†						
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	П				Sample Key / Test Key tration has not been achieved so for the quoted penetration see let observed inside the anarustion U.D. Undisturbed Sample S.G. Signal S.G. Signal Sample S.G. Si						1		\neg					+					
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					e quoted	penetratio	ora .				- Atterberg Lir - Grain Size Ar				confined insolidated			F	xistin		G.G.N.		
WL	Gro	und V	Vater I	evel obse		e the		WS-Wash Samp	ple	s	G -Specific Grav			UU-Unc	onsolidate				and le				_
	Bor	ehole	after	the saturat	ion						- Bulk Density			pH - Ch				con	sidere	d as		mika F	Prasa
3	-Har	mmer	Bounc	e						ľ	- Vane Shear T	est			mic conten			the	zero l	evel	Orilled B	Y.	_
)		e Do						RQD-Rock Qua	lity Design					1000	ride Conte						R.N	f Roha	ana
														See. 14									_

ro	jec	t					SITE INVESTIGATIONS DIVIS I Survey for the preparatory surv ion of the bridge across the Batico	vey on the		ject f	or the			Borehol	309 494 e No		BR-0	05
Ti	ent	-					Study Team	Jon Lago.					\neg	Sheet		1	of	
oc	atio	n			Batic		Rig JOY	Core D	iam	eter	54m	n	\neg	Water	Colun	ın Hei	ght	1.90
ate	of	Star	ted	,	02.09		Drilling Method Rotary	Casing	dep	th	21.00	m	\neg		6			
ate	of	Fini	she	d	04.09	.2010	Casing Diameter 76mm	Elevati	on		-2.03	1m		Coord	linates			
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Depth (m)	one	ď	ype	poo	h (n	pu	Soil Description				PT)		10			ear Stre	ngth - t/n	1
Sep	Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend			g		-	-	- 10	-	r Resista			_
0	0,	<i>y</i>	V.	-2.031		_	Ground level		15cm	15cm	15cm	Z		5 10 15		25 30		0 4
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	Ш	Ш	-				to subrounded SAND					H						
0		Н			100	1	TOP SOIL								_	1		
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	П						Very loose grey, brownish grey C	LAYEY		REE	L DOWI	i	-		-	+		-
		П	WS				fine to coarse angular to subro						-	-	-	+		
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		Н	WS				Medium dense grey, greenish gre	V SILTY					-	+	-1	-	-	\dashv
		П				×	fine angular to subrounded SAN								+	1		-
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	M	D7	SS			- 1	and men maces and shell find		12	13	15	28	-		-	1 2	8	
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0		Ш		And a		12.	I To the state of							1	X			
	When	re full ().3m =	enetration	has not b	een ach	Sample Key / Test Key eved D - Disturbed Sample	N - Natural Moist	ture Co	ntent	C - Cons	olidatio			Ren	narks	Logged By	-
	the	numbe	rofb	lows for th			ou SS -SPT Sample 1	- Atterberg Lin	nit Test					pression			G.G.N.N	
_		riven (r			mad 27 *	. de		G - Grain Size Ar		3.6	CU - Co					isting	Supervised	By:
-				evel obse the saturat		e the		G Specific Grav B - Bulk Density	ity Tes		UU-Unc		ed Ur	noramed		id level dered as	Dhamm	aka Pra
							CS- Core Sample	V - Vane Shear T	est		O - Orga	nic cont			the ze	ro level	Drilled By	
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																		- extend like



Pro	jec	t						for the p	repara		ey on the		ect f	or the	9		: 0114 oreho		0		BR	-05	_
	ent			_			on of th	e bridge a	cross t	he Batico	loa Lagoo	n				SI	eet		-	3	0		3
	ation		_		Batic		Study	Rig		JOY	Core D	iame	eter	54mi	n		Vater	Col	umn				90n
			rted		02.09)	Drilling	Method	Rotary	Casing			21.00				_		-		-	
Date	of	Fin	ishe	d	04.09	.2010)	Casing I	Diameter	76mm	Elevati	on		-2.03	1m	7	Coord	linat	es				_
2	-			- 1	6							F	ield l	Recor	ds				ure Co				_
h (m	ond	×.	ype	poo	h (m	pu		Soil	Descri	ption				PT)	_				11 0 0 0	17 17 1	gth - t/	m	
Depth (m)	Sa. Cond	a.N	Sa.Type	Reduced level	Depth (m)	Legend					1.5			-	-	10					ows/ft	50	90-
0.00	S	S	N.	-22.031	-	-		Conti	nue from	Page 2		15cm	15cm	15cm	z	5	10 1				35	40	45
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	Ш														l F		+		\rightarrow	_	1	1	+
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				32.711		1		KU	CK LE	VEL		1		11	-	+	+		+	-	+	+	+
				-23.711	21.68	M	-									-	+		-	-	-	+	+
2.00			CS			\sim									-	-	+	\rightarrow	\rightarrow	+	+	₩	+
						M								Ш		-	+		-	-	-	1	+
						M						Cr=	50%	RQD	15%	-	-		-	-	-	-	+
					-	M		whitish gr				100			-	-	-		-	+	+	-	+
3.00						LY	Iractui	red, discol	oured B	OTITE	INEISS				-	+	-		-	+	-	+	+
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T	Whee	re full	0.3m	enetration	has not be	en achie	ved	Sam D - Disturbed	ple Key / Te Sample		- Natural Moist	ure Co	ntent	C - Con	olidation			+	Remark	55 I	ogged I	Y.	_
-					e quoted p			SS -SPT Samp	le		- Atterberg Lin				confined (ompres	sion				G.G.N.		
			not N					W - Water San			- Grain Size An		1	100	nsolidated				Existin		upervise	d By:	
WL				evel obse the saturat	rved inside	the		WS-Wash San UD- Undisturb	-		 Specific Grav Bulk Density 	ity Test		pH - Ch	onsolidate mical	1 Undra	ned		ound 1 nsidere		Dham	mika I	Prasi
								CS- Core Samp	ple		- Vane Shear To	est		O - Orga	nic conten			the	zero	level	Drilled B		
B		mmer ee Do	Bound	e				Cr - Core Reco		ation (9/3					ulphate Co							of Roha	3111
	_		roun	A	×××××	Silt		RQD-Rock Qu			Laterit	447		Cl Clo	ride Conte		1 111	-	ed Roc	1.	RA	Koh	ana
	 avid 																						

7	U		E.	NGL			G & LABORATORY SERVI SITE INVESTIGATIONS DIVISION	ON					Katu	, Neelann wawala, S d: 0114 3	Sri Lanka			mat N .S-SI-0
	jec				const	ructi	l Survey for the preparatory surve on of the bridge across the Baticolo			ect f	or the	e		orehole	No		BR-	06
	ent						Study Team						S	heet		1	of	
	atio				Batic		Rig JOY	Core D			45mi			Groun	d Wate	er level		0.851
_	_	_	rted		08.09			Casing		th	18.00		_	Coordi	nates	_	_	
ate	10	Fin	ishe	d	15.09	.2010	Casing Diameter 62mm	Elevati		-	+ 0.8		_	11	oisture C	antont	0.0	_
E S	pu		٥	-	(ii)	_	1.22.32		F		Recor	ds			ned Shea			, -
Depth (m)	5	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend	Soil Description		15.5	(S	PT)		10	20 30	40 5		70 8	90
3	Sa	Sa	Sa	Re Jev	õ	3			.5cm	15cm	Sem	Z			Resistan			_
00		Щ	ш	+0.80			Ground level		15	15	15	-	5	10 15	20 2	25 30	35 4	40 45
			-1				Whitish grey, light brownish white											
		ш	WS		GWL at		coarse SAND with some coral i	ock					_					
				-0.05	0.85m ▼	7	fragments											
0		ш			\doteq		TOP SOIL			-		L						
	V	DI	SS	-0.10	0.90	.::			3	2	0	2	02					
	\triangle												î [
	Ιij		ws			15.74												
0						15	Nº											
	V	D2	SS						0.	0	0	0						
	\triangle						B. B. C. S. B. S. B. C.	3.14		100		î	00					
			ws				Very loose grey fine to medium an											
0						1.1	subrounded SAND with some corr	al rock									\Box	
	7	D3	ss			200	fragments		1	0	0	0						
	Х	23	33							V	~	,	00					
												l	-		+	-	+	
						·						H	-	1				
		ш	WS									lŀ	-	-		_	-	
			-									l	-	1				
									-				-	-		-		
	X	D4	SS	-3.80	4.60	* : : :			1	0	0	0	00	++	+	-		-
0							-					lŀ	-	+	+	-	+	-
		ш	- 1									l	-	1		_	\vdash	
		ш	WS			6.00						l P		++		-	\vdash	
		Ш					Very loose whitish grey, off white	fine to				lŀ	-	1		_	+	
0		- 6				116	coarse angular to subrounded SAN		C.			H		-	-	-	-	
	X	D5	SS				some coral rock parts		-1	1	1	2	1 02	+	+	-		
	\vdash											H	1	-	+	-	-	-
												ŀ	1	+		-		
)			WS									lŀ	1	+	+	-	+	-
												H	-1		-	-		-
												-	-1	-			-	-
	X	D6	SS	-6.70	7.50				2	3	4	7	+;	07	-	-	+	-
)	\vdash						A January & Managarian						+	V				
			9			130	Loose whitish grey, off white fine to						-				-	-
			WS				angular to subrounded SANI)				l	+	1	+		+	+
													+	1				-
,						1						H	-	1		-	-	-
	X	D7	SS	-8.20	9.00	X	Medium dense whitish grey, off	white	7	9	9	18	-		18	-		-
	\vdash					X	SILTY fine angular to subrounded						+	1				-
			WS			×	with some mica traces	37,670				l	+		1		+	-
0		\sqcup		100			7, 60, 7, 80, 611, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,							1	1 \			
	Whe	re full	0.3m r	enetration	has not be	een achie	Sample Key / Test Key eved D - Disturbed Sample N -	Natural Moist	ture Con	itent	C - Con	olidation			Rema	rks Le	gged By	-
	the	numb	er of b	lows for t	ie quoted p		ou SS -SPT Sample L -	Atterberg Lin	nit Test			confined	Compre	ssion			G.G.N.N	
			not N		4	4.7		Grain Size Ar			100	nsolidate			Exist		pervised	By
_				evel obse the saturat	rved inside	the		Specific Grav Bulk Density	aty Test		pH - Ch	onsolidat mical	rd Undr	amed	ground conside		Chi	andana
							CS- Core Sample V -	Vane Shear T	est		O - Orga	nic conte			the zero	level		
		mmer ee Do	Bounc	e			Cr - Core Recovery (%)				1000	ulphate C						hantha
2	$\overline{}$	_	roun	d	×××××	Silt	RQD-Rock Quality Designation (%)	Laterit	a NT-	lular	CI Clo	ride Cont		tely Weat	harad D	not:	NIS	manna
4		300	- vital	-	- × ×	Sand		_	and	mics	-	=		eathered F		1	Fresl	

roje	ct						for the pr e bridge ac					ject 1	for th	e	Borel	hole N	o		BR-0)6
lien	t					Study									Sheet		-	2	of	3
catic	n			Batic			Rig		JOY	Core I			45m		Gr	ound V	Vater	level	- 0	0.851
ite of			,	08.09			Drilling N			Casing		th	18.00		Cov	ordinat	00			
ite of	Fin	ishe	d	15.09	2010)	Casing Di	ameter	62mm	Elevat	ion		+0.8	0m	Co.					
Sa. Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil I	Descrip	otion		F		Recor PT)	ds -	Ur 10 20	Moist idrained 30 40				12 90
	S	Sa		Do	Le						Scm	15cm	Scm	z		SPT Res				
00.	⊢	-	-9.20		x:::		Contin	ue from	Pagel		5.	15	S	-	5 10	15 2	0 25	30	35 4	0 4
Ш	L				^ ×		Same as pre	evious	descriptio	on				l F		+-			\vdash	\dashv
000	D8	ss	-9,70	10.50	x		e whitish gr 7 fine angul: with sor	ar to su	brounde		22	16	17	33				1	3,3	\
Ю	D9	ss			x x x		ı a depth of ged to greer				10	23	24	47						47
00		ws	-13.30	14.10	*	Yello	d Sample:					SAND	BOILE	D						
00	l			15.00		_	D with stron	ig cora	l rock fra	gments			BOILE	-	++	+	-	+	\vdash	\dashv
00	7	ws	-14.20 -14.75	15.55		Very	d Sample: y loose gree e SAND wit													
)0 X	D16	ss				brown	se grey, bro CLAYEY fr unded SAN	ine to 1	nedium a	ngular to	7	21	22	43						!
00	D11	SS				50010	mucu SAIN	wid.	onen nd	gments	10	18	20	38						8
	_	_		_	_		Sampl	e Key / Te	t Key		_	_	_				Remarks	Lo	gged By	7
th is L G B	e numb given round	er of b not N- Vater I , after t	lows for to value) evel obse he saturat	has not be se quoted p rved inside ion	penetratio		D - Disturbed S: SS -SPT Sample W - Water Samp WS-Wash Sampl UD- Undisturbed CS- Core Sample Cr - Core Recove RQD-Rock Qual	ample ple le d Sample e ery (%)	S L G S B	Natural Moi Atterberg Li Grain Size A Specific Gra Bulk Density Vane Shear	mit Tes malysis vity Tes		UCT-Up CU - Co UU-Unc pH - Cla O - Orga SO ₄ ²⁻ - S	nsolidated onsolidated	Undrained	gr	Existing ound le nsidered e zero le	Survel d as	Cha	Amara

•	5		-	NGL			G & LABORATOR' SITE INVESTIGATION	S DIVISI	ON					Katuw	Veelamm awala, Si 0114 30	ri Lanka			ormat N LS-SI-(
	je						l Survey for the prepara on of the bridge across t				ject f	or th	e	Во	rehole	No		BR	-06
	ent				_	_	Study Team							She			3	0	
	atic				Batic		Rig	JOY	Core D			45m			Ground	l Wate	er leve	el	0.851
_	_	_	rted		08.09	_			Casing		th	18.00			oordin	nates	_		
ate	10	Fin	ishe	d	15.09	.2010) Casing Diamete	i 62mm	Elevati	on		+ 0.8	0m				1	0.0	_
Depth (m)	Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend	Soil Descri	ption		F		Recor PT)	ds -	10 2	Undrain	ed Shea			m 90
Del	Sa	Sal	Sa	Red	Deg	Eg				В	8	8			SPT F	Resistan	ce - Bl	ows/ft	-
.00				-19.20			Continue from	Page 2		15cm	15cm	15cm	z	5	10 15	20 2	25 30	35	40 45
.00			ws				Same as previous	descriptio	m									/	
.00	X	D12	SS	-20.20	21.00	1111	Very stiff grey, brown slightly silty PLA			8	11	17	28			28	1		
00			ws	-21.60		-										H	1	1	
		ı		-21.00	22.40	-:1							Ιŀ						
.00	ı	ı				100	Yellowish brown, brow	n fine to n	nedium										
	1	D13	ss				angular to subrounded sa			50	нв		>50						
	Δ		-		1.0	1	•	Cr. Carrie		7.4			1						35
		1				13.1	COMPLETELY WEA	THERED	ROCK				l l			+			
00	1	ı	ws			2	COMPLETELT WEA	THERED	ROCK				l I						
00	1	ı	WS	22.10			ROCK LE	VEL					l 1	_			\rightarrow	1	
		ı		-23.40	24.20	1-1									-		-		
		ı	ď.		24.20	1	Consolidable de collect	I I	Dec Con				- 1	_			-	+	
		ı	CS			W	Greenish black, yellowi									+		-	
00	ı	ı				1.	sand with large amount		aces and	-		200		-		+	+	-	
	ı	ı			1	1	rock fragu	iems		Cr	=3%	RQD	=0%	-			-	-	
	ı	ı				N												+	
		ı				1	HOURNEATH	EDED DO	CIT				- 1	_	-		-		
00	1	ı		-5-1		M	HIGHLY WEATH	ERED RO	CK				- 1			+	-	-	-
	ı	ı		-25,40	100	1			_		-	1	\neg	-	-		-	+	-
	ı	ı	CS	111	26.20	2	of also bather as		1.12.14	Cr=	55%	RQD	=0%	-	-	-	-	+	-
	ı	ı				2	Black, blackish grey med					1.2	-	-	-		-	+	
00	1	ı		-26.00	26.80	\sim	fractured, discoloured E	HOTITE C	INEISS /	Cr	56%	RQD:	56%	-		+	-	+	-
	ı	ı	CS			M			/				-	-	-	+	-	+	-
		П		-26.50	27.30		Black, blackish grey i	nedium or	ained /					-				+	1
		ı					highly fractured, disco	loured BIG	OTITE				H	-	-	+	-	+	1
00							GNEIS						l ŀ	-			-	-	
		1													-		-	+	
							The borehole was termin		depth of				H	-	-	+	-	+	+
		ı					27.30n	n					H	-		+	-	+	1
00		ı											l F	-		+	-	-	
					l								H	-			-	-	1
		ı											H	-			-	+	
													H	-	-	-	-	+	
00		乚					14-1-1-1												
_	Wh	re full	0.3m	penetration	has not b	een achie	Sample Key / To		- Natural Moist	ure Co-	atent	C.Can	solidation			Rema	rks	Logged E	BY.
					ie quoted		ou SS -SPT Sample	L	- Atterberg Lin	nt Test		10000	confined	Compressi	on			G.G.N.	N Amaral
				value)	4		W - Water Sample		- Grain Size An				molidated			Exist		Supervise	d By
L				Level obse the saturat	rved inside	e the	WS-Wash Sample UD- Undisturbed Sample		 Specific Grave Bulk Density 	ity Test		pH - Ch	onsolidate emical	d Undrain		ground conside	10.73	c	handana
	201		- matté				CS- Core Sample		Vane Shear Te	est			anic conte	at		the zero	level		
			Bound	e.			Cr - Core Recovery (%)	5.50 I					sulphate C						
X	_	ee Do	iroun	A	×××××	Silt	RQD-Rock Quality Design		Laterite	. 57.	lula-	CI Clo	ride Conte		W		- de	N	ishantha
×	IVI.	ine C	-roul	n.s	X X X	Sano			Laterite		niies				ly Weath thered R		ock L	~	sh Rock

(Ŀ		E.	NGL			G & LABORATORY SITE INVESTIGATIONS I Survey for the preparato	DIVISIO	ON							, Sri La 309 49			Forma ELS-S	
Pro Cli					const	ructi	on of the bridge across the Study Team			-	ecti	or the			oreho	le No	1		e-07	3
	atio		_	-	Batic			JOY	Core D	iam	eter	45m	n			Colu	mn He		_	50m
			rted		22.09		- C		Casing			19.00		_					0.2	OIII
_	_		ishe	d	23.09				Elevati	_		-0.33			Coor	linate	s			_
2										E	ield l	Recor				Moistur	e Conte	nt - %		-
Depth (m)	Sa. Cond	Sa.NO.	Sa.Type	Reduced	Depth (m)	Legend	Soil Descript	ion			(S	PT)	-	10	20 30	40	hear Str 50 6	0 70	86	90
.00	Š	S.	Š	-0.331	Ω	ă	Ground leve		-	Scm	Sem	15cm	z	5	10 I		stance -	Blows/1	40	45
VO	Н	Н	Н	+0.331			Glound level			-		-	-	1	10 1	1	1	30 33	T	45
			ws	4			Grey, dark grey slightly cla angular to subround													İ
															-		-		-	-
00			4	13.5			TOP SOIL								-		-		-	+
	X	D1	SS	-1.331	1.00					0	0	1	1	01	_		-		-	1
	\vdash					-									-		-	_	+	+
															-				-	-
.00							Very loose dark grey, grey				2		l . F	-	+	\vdash	-		+	+
	X	D2	SS			-	coarse angular to subro	unded SA	IND	1	1	.1	2	4 02	-		-	-	+	+
									- 1				-	1	-	-	-		+	+
													l	-	-	-	+	-	+	+
00						111							-	-	+	\vdash	-		+	+
	X	D3	SS	-3,331	3.00	χ	V27477 05 11 0 10	-1/ C O	20.01	1	1	1	2		-	-	-		+	+
	\vdash			7-1		×	Very loose dark grey, gre						Н	02	+	-	-	-	+	+
						x	SILTY fine to coarse angul	lar to sub	rounded				H		+	-	-	-	+	+
00			WS				SAND						ŀ	+	+	-	-	-	+	+
						X							-	-	-	-	-	-	-	+
	L					Χ							L	+	+	-	-		+	+
	X	D4	SS			x				0	1	2	3	1 03	-	-	-		+	+
00	\vdash					^	2.00.000.000.000	20.					ŀ	1	+	+	-	-	+	+
			10.0			×	Clay content deacreased	with the	depth				H	-	-	-	-		+	+
			WS			X							H	-	+		-		+	+
						×							H	-	-		-	-	+	+
00		-0.		43.53									ŀ	+	+		-		+	+
	X	D5	SS	-6.331	6.00					2	2	2	4	04	+		-		+	+
			5			-	T		en se				1		+	\vdash			+	t
13	Ш		UD			1.0	Loose dark grey, grey Cl medium angular to subre			le.	UDS.	AMPLI	i	1	+				+	+
00			****				medium angular to suore	ounded 3	AND				1						\uparrow	
			WS		- 1	-														T
	7	D.C	00	7.031	7.50	-				2	2	,	,							T
00	X	D0	22	-/,831	ELD V						-	1	1	103						T
JU							Very loose dark grey, grey	CLAVE	V fine to						V					
			ws			-:0	medium angular to subre													
			***3				store and the store		-											
00						1														
and	7	D7	SS	-9.331	9.00	x	and the second second		coronal	8	11	18	29				/			
	Ă	-	55	2,351	-100	X	Medium dense greenish				1	1.0	[[1	29		
			ws				SILTY fine to mediu		r to											
0.00						X	subrounded SA	AND										17	1	
							Sample Key / Test						_			R	emarks	Logged	By	
T					has not be de quoted ;				Natural Moists Atterberg Lim			100000	olidation confined	Сопърес	eson.	1		003	.N.Am	arabo
			not N		a. quoted	enettati	W - Water Sample		Grain Size An			100	nsolidateo			E:	xisting		sed By:	
VL					rved inside	e the	WS-Wash Sample		Specific Gravi	ty Test			onsolidate	d Undra	ined		and leve		4	
	Во	rehole	after	the saturat	ion		UD- Undisturbed Sample CS- Core Sample		Bulk Density Vane Shear Te	est		pH - Cho O - Orga	mical mic conte	at		200	idered a	- 101 -	mmika I By:	1353
3			Bound	e.			Cr - Core Recovery (%)					5042-5	ulphate C	ontent		ine 2	and leve	1	-	_
) XX	$\overline{}$	de C	_		XX	Silt	RQD-Rock Quality Designati	ου (%) ΔΔ	A AI		- 5	Cl Clo	ride Conte		71.4	1	of the last	R	M Roha	ana
									Laterite		11			mplet						

roje	ect						for the prepara bridge across				ject	for th	e	Boi	rehole N	No		BR-	07
lien	t					Study To			-					She			2	of	7.7
ocati				Batic			Rig	JOY	Core I			45mi		N	ater Co	olumn	Heig	nt	0.501
ate o				22.09			Drilling Metho		Casing		th	19.00			oordina	ates			
ate o	f Fi	nishe	d	23.09	.2010)	Casing Diamet	er 62mm	Elevat	ion		-0.33	lm	_	2.00	4535		_	
Sa Cond	Sa.NO.	Sa.Type	Reduced level	Depth (m)	Legend		Soil Desci	ription		I		Recor PT)	ds –	10 20	Undraine				n ²
	Sal	Sa	Red	Del	Leg.					Scm	15cm	Scm	z		SPT R	esistan	ce - Blo	ws/ft	_
.00	I		-10.331				Continue from	m Pagel		150	150	IS	-	5 1	0 15	20 2	5 30	35 4	40 45
					* *	Sa	ame as previou	s description	on					+			- 1		
λ	D8	SS	-10.831	10.50	x ::					9	11	11	22			I			
.00	4															A 22			
	1				×												-		
	1	ws			×					ı									
- 11	ı	-						4 CANADA 48 S	40000	ı									
00	ı	1			X		m dense whitis					1,4							
1	1				×	SILIYI	ine angular to		ISAND	1	SAND	BOILE	D						
	1				x		with some m	ica traces											
	1				3.3														
00	1	ws			x														
	П										1					\Box			
				- 1	, A					ı									
	D9	22	-13.831	13.50	x	Washed S	Sample:			5	6	7	13						
10 Z	V	35				Transca.	omnipie.					AMPLI			• 13	\Box			
	1				×	Medin	m dense whitis	h grev lig	ht orev		1	1	i F			\Box	\neg		
	1	1170			x		ine angular to						l 1						
	1	WS				SILITI	with some m		JAND				Ιŀ	_			\pm	\Box	
	ı				×		with some in	ica traces		١.			l l						
00	1	1	-15.331	15.00		Washed S	Comple			١.	CANID	BOILE	, F	1		\vdash	_	+	
	ı	1	-15.551	15.00	x	wasned :	Sample:			`	I	I	ĭ ŀ	_			\rightarrow		
	ı	1			×	7771-1-1	into more limber	CII TY	r Gas				Ιŀ			\vdash	_	\Box	
	ı						ish grey, light (to subrounded												
00	П				X	angulai	mica tra		in some				l 1			\vdash	_		
	П	WS			×		mica tra	ices					Ιŀ				_		
	1		West 1	7						1			Ιŀ			\vdash			
	1		-16.831	16.50									l l	-		\vdash	_	+	-
00	1												l F	_		\vdash	+	+	
$ \rangle$	DI	0 SS			- 1					4	6	8	14	-	A 14	\vdash	_		
F	1					2			20.00					-					
						Stiff bro	own, grey, dark		itly silty					1		1		+	1
00							PLASTIC	CLAY		1			l F	1		+	1	1	
	1	WS			-									1		\vdash	1		1
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					-									1			_		
00				0.20	-													\top	1
X	D1	1 55	-19.331	19.00	1					10	HB		>50	1					>
	4				***		Same as next of	description			NO S.	AMPLE	1	1					
00	\perp						Sample Key /	Tast V						1		Rema	det IIv	ogged By	
W	here fu	11 0.3m	penetration	has not b	een achie	ved I	D - Disturbed Sample		- Natural Mois	sture Co	ontent	C - Cons	olidation			Kema	P) 14	resed By	lar.
d	he nun	aber of t	olows for t			ou S	SS -SPT Sample	1	- Atterberg Li	unit Tes	đ	UCT-Un	confined C					G.G.N.N	
	-	(not N Water	value) Level obse	rend insid	e the		W - Water Sample WS-Wash Sample		- Grain Size A G - Specific Gra				nsolidated onsolidated			Exist		upervised	By
			the saturat				UD- Undisturbed Sample		- Bulk Density		-	pH - Che		Samuel and C	c	onside	red as		nika Pras
							CS- Core Sample		- Vane Shear	Test			nic content		tl	he zero	level D	rilled By	
	famme Free D	er Boun lown	ce				Cr - Core Recovery (%) RQD-Rock Quality Desi						ulphate Co ide Conter					RM	Rohana
CXI	-	Grour	nd	X××××	Silt		Gravel		Laterit	ta No	dules	1.00			y Weathe	arad D	ck	V	
_					The Late									T			-		

(1		Е	NGI			SITE INV	BORATORY	S DIVISI	ON					Ka	/3, Nee tuwawa Tel: 01	ala, Sri	i Lank			LS-S	
Pro Cli	77				const	ructi	on of the	for the prepara bridge across t	The state of the state of			ect 1	for th	e		Borel		No	3	BR	7.71	2
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_	_		rted		22.09)	Drilling Method		Casing			19.00			-		-	T	5	0.2	Om
_	_	_	ishe	d	23.09			Casing Diameter		Elevati	_	-	-0.33			Coo	ordina	ates	\vdash		_	_
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	ı	ı		24.551	24.20	2																
		ı	cs			\sim							II									†
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5.00	1	ı				N	grained,	highly fractured	, strongly i	ractured	Cr=	67%	RQD	=8%		1		\vdash				
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	15	given	(not N	value)				W - Water Sample	G -	Grain Size An	nalysis		CU - Co	molidate	ed Uno	drained		Exist		Supervise		
WL					rved insid	e the		WS-Wash Sample		Specific Grav	ity Test				ted Ur	ndrained		ground	1.7.5	ps.		
	Во	rehole	e, after	the satura	non			UD- Undisturbed Sample CS- Core Sample		Bulk Density Vane Shear T	est		pH - Ch O - Orga	emical mic cont	ent			onside he zero	100	- 111	mika P	1353
В			Bound	e				Cr - Core Recovery (%)			57		5042-5	sulphate	Conte	nt	i.	ne zen	revel	11	700	_
D	1	ee Do	_		XX			RQD-Rock Quality Design		AA	LAC TO		Cl'-Clo	ride Con		2017				RA	f Roha	ma
ΔÓ	Ma	ide (Groun	d	x× x x	Silt		တ္စ္တိန္ Gravel		Laterit		ules		1	omp	letely \	Weathe	ered Re	ock	\sim		
	Cl	av				Sano	d	Organic Ma	tter x	Silty S	hue		1	- His	hly Y	Weathe	red Ro	ck		Fre	h Ro	sck

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	ent						Study Team							S.	heet		1	of	
	tio				Batic		Rig	JOY	Core D			45m			Groun	d Wate	er leve	1	0.30
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ate	10	Fin	ishe	a	27.08	.2010	Casing 1	Diameter 62mm	Elevati			+ 0.7		-		oisture (Contont	ac.	
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			+ 4			. N	Medium dense	whitish grey, ligh	ht grev		1.7		l l	-	+	1		-	
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	\wedge					2.5	CLASTIC THE	SAND						+	+			-	
	111	Ш	ws			3.3		AND AND THE						-	1			-	
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					has not be he quoted :				 Natural Moist Atterberg Lin 		itent		solidation iconfined	Compre	ssion			G.G.N.N	Amara
			not N-		1.4.4.4		W - Water Sa	mple G	- Grain Size Ar				nsolidate			Exis		upervise	
					rved inside	e the	WS-Wash San		G -Specific Grav	ity Test			onsolidat	ed Unde	uned	ground			
	Bo	rehole	atter	the satura	non		UD- Undistud CS- Core Sam		 Bulk Density Vane Shear T 	est		pH - Che O - Orga	emical mic conte	nt		conside	ered as o level D		andana
			Bounc	e.			Cr - Core Reco	overy (%)		137			ulphate (ane zero	level		
XI	-	ee Dos	_		IX ~ V			nality Designation (%)	Laterit		- 5	Cl Clo	ride Cont					Ni	shantha
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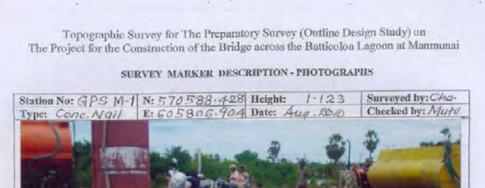
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	ent						Study Team							Sheet		2	of	- 3
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		Star				3.2010			Casing		th	22.00		Coor	dinates			
Jate	10	Fin	sne	a	27.08	.2010	Casing Diameter 62m	un .	Elevati			+ 0.7			Moisture C	antont	ac.	_
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eptl	a. C	Sa.NO.	Sa.Type	Reduced	ept	Legend	oon Description			_	-		-	10 00 0	0 40 50		70 80	90-
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8.00		Ш					TLASTIC CLAT						-		-	-	+	+
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	\Box					4 F	coarse angular to subrounde	d SAN	DY							1		
0.00		П				- 1	CLAY									1		
	_	Ч				. 1	Sample Key / Test Key	- 17		_					Remar	ks L	ogged By	
T					has not be				atural Mois sterberg Lir			and the second	olidation	ompression	-		G.G.N.N.A	marab
		numo nven (quoted	Percuano.	W - Water Sample		rain Size Ai			CU - Cor	isolidated	Judrained	Existi	ng Si	pervised B	
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) XX	_	de G	_	A	X×××	Silt	RQD-Rock Quality Designation (%)	AAAA AAAA	Laterit	a NT-	hules	CI - Clor	ide Conten		eathered Ro	alı	Nisha	una
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	ent				_	_	Study Tea		How	Ic. T					5	heet		***	3	_	of	
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			ws			1.1	Sar	ne as previo	ous descriptio	n					-	-	F		-	-	V	-
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1.00					20.60									П							1	1
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3.00					1 9	1									4	+	+	H	-	4	\dashv	4
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1.00		ш	WS			2								H	\rightarrow	+	-	\vdash	-	-	+	+
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7.00						M			NITIC GNE				_	_	-	+	-	\vdash	-	-	+	-
				-26 16	26.90	1 1	The borel		minated at a	depth of					-	+	-	\vdash	-	-	+	-
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T	Whe	re full	0.3m n	enetration	has not b	een achie	ved D	Sample Key - Disturbed Sample		- Natural Mois	ture Con	atent	C - Con	solidation	-			Rema	rks	Logg	ed By	
	the	numb	er of b	lows for t	he quoted		a SS	-SPT Sample	L	- Atterberg Lu	mit Test		UCT-U	nconfined	Compr				to d			Amarako
WL			not No Vater L		rved inside	e the	2.00	- Water Sample S-Wash Sample		Grain Size A Specific Grav				onsolidate consolida			0	Exist		Supe	rvised I	By:
				he saturat			UD)- Undisturbed Sam	ple B	- Bulk Density			pH - Ch	emical			c	onside	red as		Chan	dana
3	,H-	mmer	Bounc					- Core Sample - Core Recovery (- Vane Shear T	Test			anic cont			tl	ne zero	level	Drille	d By:	
)		mmer ee Do						D-Rock Quality D					100	sulphate uide Con			Ξ,				Nish	antha
XX	M	do C	roun	A	X××××	Silt	0.	Gravel	Δį	Lateri	1051		15 1	1			Veathe	10	-1-	1	1	

5.3 Topographic Survey Result

Table Temporary Bench Marks

	B 4 18 54			Final Values	LA ALL DE
	Control Point No.	Description	Northing (m)	Easting (m)	Elevation (m)
L	GPS - MI	Conc. Nail driven in Pier surface and painted	570,588.428	605,806.904	1.123
2.	GPS - M2	Conc. Nail driven in cemented area around Pulleyar Kovil and painted	570,524.669	605,325.452	1.199
3.	MM - 1	Iron Bolt in Concrete Block	570,782.785	605,852,242	0.747
4.	MM - 2	-do-	570,606.550	605,863.097	0.471
5.	MM - 3	Iron Bolt in Concrete Base of High Tension Electric Tower	570,550.437	605,331.517	1.157





Gamini B Dodanwela Associates (Pvt) Ltd.

Land Surveyors

