Appendix K Results of Soil Investigation

A List of Appendix K

1. BORING LOGS

- 2. SOIL PROFILE
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- 4. SOIL PROPERTY CHARTS
- **5. POTENTIAL OF LIQUEFACTION**

1. BORING LOGS

вс	RE H	OLE N	lo. BI	H-01				BC	RING	L 0 (<u>-</u>							Job 1	_	KYB-20 ret No.	-	5 OF 2
PR	.0JECT	NAME	: <u>Geo</u>	logical Surv	vey on the	supplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	UIPMEN	Т	: <u>TO</u>	HO "D1"				DATE	: 24	1.08.2016			
LC	CATIC	N	: <u>Tha</u>	nlyin Chin H	Kat Road, I	haketa Tov	wnship.		BORING ME	THOD		: <u>Rot</u>	ary Dire	et Circula	tion	CLIEN	<u>r</u>					
		LEVEL							ORIENTATI			: <u>Ver</u>					NIPI	PON KO	DEI CO	., LT	D.	
cc	ORDIN	JATE	: <u>E 2</u>	03871.632;	N 1860013	. <u>429</u> DI I	EPTH :_	50.00m	GROUND W	ATER LI	1	: <u>2.5</u>		STANDA	D PENE	TRATION	TEST					
	_		_			SITY NCY				Ē	CASING (DEPTH (m) & DIAMETER (mm))	(II)	<u> </u>			DD (ASTM			SAM	PLING		
(ELEVATION (m)	(m) - J	THICKNESS (m)	2		RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	DEPT STER (WATER DEPTH (m)	г - (ш)	0cm)	CUI	RVE OF BL	.ow •	LE No.)	(m)			-
SCALE (m)	EVATI	DEPTH GL - (m)	ICKNI	DIAGRAM	COLOUR	LATIV () CON	IF NA			TE & I	SING	VTER I	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Valu (Blows / 3		SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%)
	EL	DE	ΗT	DI	8	(c RE	TIOS			DA	5	W,	DE	(B)) 10	20 30	40 50		DEI	TC	sc	RQ FC
					brownish	Soft	CLAY	Soft, brownish gray, moist, med	lium to high				1.00					A-1	1.00			
Е					gray			plasticity, CLAY (Filled Soil)										A-1	1.50			
2	3.02	2.00	2.00							1	2.00 Ø112	¥	2.00	5/30	1			P-1	2.00 2.45			Ē
3					brown	Firm	CLAY	Firm, brown, moist, low to medi CLAY	um plasticity,				3.00		1			U T-1	$\frac{3.00}{\binom{65}{80}}$ cm			
4								GL- (4.00 ~ 4.45)m; silt percent i	s increased at				4.00	6/30				₽-2	3.65 4.00			
			• • • •					that depth					-	0/30	N			1-2	4.45			
5	0.02	5.00	3.00	× × ×						1			5.00	14/30	þ			P-3	5.00 5.45			
6				× × × × × ×	gray	Loose	Silty	Loose to medium dense, gray, moi					6.00	14/30				P-4	6.00 6.45			E e
7				× × × × × ×		to medium	SAND	grained, Silty SAND, with trace of	mica mineral				7.00	11/30	ľ			P-5	6.45 7.00			
° uulu				× × × × × ×		dense		GL- (8.00 ~ 8.45)m; loose, gra	ay, wet, fine				8.00		ľ				7.45			E.
61117111181				× × ×				grained, low plastic Clayey SA observed as intercalated layer at th	ND layer is				8.00	7/30	•			P-6	8.00 8.45			ш ш
9				×××									9.00	9/30				P-7	9.00 9.45			ш <u>ш</u>
10	-4.98	10.00	5.00	× × ×									10.00	2/30				P-8	10.00			
					gray	Soft	Sandy	Soft to firm, gray, moist, fine					11.00		\setminus				10.45 11.00			E.
11						to firm	CLAY	plasticity, Sandy CLAY, with t mineral	race of mica				11.00	6/30	٩			P-9	11.00			Ē
12	-6.98	12.00	2.00							-			12.00	10/30	k			P-10	12.00 12.45			
13				× × × × × ×	gray	Loose	Silty	Loose to medium dense, gray, moi					13.00	17/30				P-11	13.00			
13				x x x		to medium	SAND	grained, Silty SAND, with trace of					14.00		V				13.45			E,
14				× × × × × ×		dense		GL- (14.00 ~ 14.45)m; Silty SAI patches is observed at that depth	ND with clay				14.00	7/30				P-12	14.00 14.45			Ē
15	-9.98	15.00	3.00							-			15.00	21/30		\		P-13	15.00 15.45			
16				× × × × × ×	gray	Medium	Silty	Medium dense to dense, gray, r	noist, fine to				16.00	18/30		4		P-14	16.00			1
17				×		dense to	SAND	medium grained, Silty SAND					17.00			N			16.45 17.00			Ē
, Internet				× × × × × ×		dense		GL- (20.00 ~ 20.45)m and (24.0	0 ~ 24.45)m;				-	30/30		Ì		P-15	17.45			Ē
18				× × ×				medium dense, gray, fine to med low plastic Clayey SAND layer i					18.00	29/30		4		P-16	18.00 18.45			
19				× × × × × ×				intercalated layer at those depths					19.00	25/30				P-17	19.00			1
201				× × × × × ×						24.08.1	6		20.00					D 10	19.45 20.00			
lint				x x x						20.00	Ť		-	24/30				P-18	20.45			
2 <u>1</u>				× × × × × ×									21.00	28/30		þ		P-19	21.00 21.45			E2
22				x x x									22.00	30/30				P-20	22.00			12
23				× × × × × ×									23.00	28/30				P-21	22.45 23.00			
لست				x x x										28/30					23.45			
241				× × × × × ×									24.00	18/30				P-22	24.00 24.45			12
25				x x x									25.00	33/30				P-23	25.00			
17 <u>3</u> 18 19 19 19 19 19 19 19 19 19 19				× × × × × ×									26.00	27/30				P-24	25.45 26.00			
, Turnin				×××										27/30					26.45			
-/1				× × × × × ×									27.00	28/30				P-25	27.00 27.45			E ²
28				x x x									28.00	42/30				P-26	28.00 28.45			
2 <u>9</u>				× × × × × ×									29.00	30/30			4	P-27	28.45			12
301				× × × × × ×									30.00				\mathbf{X}		29.45 30.00			III.
201111				× × ×				Continue to most alse					30.00	48/30				P-28	30.00			
31	NOT	ES		×××				Continue to next sheet Sample key		<u>р</u>	lanner stru	icture	31.00			Discontinuit	ties					E3
	Re	lative den				tency descrip		P-1 Disturbed sample (SPT sample) PBT Permeat		Term Very thic		Spacing	g (mm) 2000	Ve	Term y widely		Spacing ((mm) 000		UKKE		
		ve density y loose		(meas) 0 - 4	Consisten Very sof	.,	nder 2	Undisturbed Sample	ear Test	Thick		600 - 200 -	2000		Videly sp fedium s	aced	600 - 2 200 -	2000	FG=X	Yangon w: 951 - 80	Branch 10896, 959) - 420089762
	L	oose		4 - 10	Soft		2 - 4 5 - 8	Conison sampler) Rock core sample		Thin Very th		60 - 20 -	200		losely sp y closely	aced	60 - 2 20 -	200	FUKKEN Revision N	rww.myanma	ngeoconsul Rev:	tant.com
	D	im dense ense	3	30 - 50	Firm Stiff		9 - 15	Rock core sample (Double core tube) 25 - 50	Poor T	hickly lam	inated	6 -	20	Extre	mely clos	spaced ely spaced	20 - 0		Revision D	ate	19.09	0.2016
	Ver	y dense	0	over 50	Very stif Hard		6 - 30 over 30	(bitable core sample (Core Loss) 50 - 75 75 - 90	Good	fhinly lami	mated	<	0	Remar	ks							
								w-i Water sample 90 - 10	0 Excellent													

PROI			0. B I						RING		-							She	eet No.	2	OF 2
1100	ECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplement	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMENT		: <u>TO</u> F	10 "D1"		_	DATE	: 24	.08.2016			
LOCA				nlyin Chin K	Kat Road, T	haketa Tov	vnship.		BORING ME					Circulation	- <u>CLIE</u>	<u>INT</u>					
		LEVEL			1 10/0012	420 DI	DTU .	50.00	ORIENTATIO		VET	: <u>Ver</u>			-	NIPP	ON KC	DEI CO	., LT	D.	
	RDIN	AIE	: <u>E 20</u>)3871.632 ; 1	N 1860013.	<u>429</u> DE	^{.PTH} :_	50.00m	GROUND W.		×	: 2.50		TANDARD P				SAM	PLING		\top
	e		ē			NSITY ENCY				(III) H	CASING (DEPTH (m) DIAMETER (mm))	(m) H			THOD (AS				PLING		
(u	ION (II	(L - (m)	ESS (m	Σ		VE DEN	NAME	SOIL DESCRIPTION		DEPTI	(DEP1 ETER (DEPTH	(T - (m)	lue 30cm)		BLOW •	PLE & No.)	Г - (Ш)			(11
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	RELATIVE DENSITY (or) CONSISTENCY	N/N TIOS			DATE & DEPTH (m)	ASING	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows/30cm)	(Blows	/alue / 30cm)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	1	0	T	D X X	0 gray	≃ ⊂ Medium	∞ Silty	Medium dense to dense, gray, r	noist, fine to		0	*	Ω	e 0 1	0 20 3	30 40 50		ā	Ē	20	× ×
3 <u>1</u> 32				× × ×	0,	dense to	SAND	medium grained, Silty SAND	,				31.00	18/30	•		P-29	31.00			3
32				× ×		dense		GL- $(20.00 \sim 20.45)$ m and $(24.0 \text{ medium dense, gray, fine to medium dense})$									D 20	31.45 32.00			E 3
				× × × ×				low plastic Clayey SAND layer i intercalated layer at those depths						14/30	\mathbb{N}		P-30	32.45			Ē
-	7.98	33.00	18.00					Intercarated rayer at mose depuis		1			33.00	23/30	•		P-31	33.00 33.45			3
34					gray	Very	CLAY	Very stiff, gray, moist, low					34.00	28/30			P-32	34.00			3
34						stiff		plasticity, CLAY with fine grained	u sanu	34.00							D 22	34.45 35.00			3
														28/30	/		P-33	35.45			F
36													36.00	23/30			P-34	36.00 36.45			3
37 -31	1.98	37.00	4.00							1			37.00	38/30			P-35	37.00			3
38					gray	Dense	Clayey SAND	Dense, gray, moist, fine to mediur plastic Clayey SAND	n grained, low									37.45 38.00			Ш.,
38							SAND	piasue Clayey SAIND						40/30			P-36	38.45			Ш.
-	3.98	39.00	2.00							{			39.00	50/27			P-37	39.00 39.42			<u>=</u> 3
40 41 42 43 44 44 45					gray	Hard	CLAY	Hard, gray, moist, low to medi	ium plasticity,				40.00	50/17			P-38	<u>40.00</u> 40.32			4
41								CLAY with fine grained sand										40.32			Ë.
1														37/30			P-39	41.45			Ē
42								GL- $(44.00 \sim 45.42)$ m; fine percent is increased at that depth	grained sand				42.00	36/30			P-40	42.00 42.45			4
43								percent is increased at that depth					43.00	35/30			P-41	43.00			4
14																		43.45 44.00			4
1														36/30			P-42	44.45			1
4 <u>5</u>													45.00	50/27			P-43	45.00 45.42			4
46 -40).98	46.00	7.00							26.08.16			46.00	50/15			P-44	46.00 46.30			4
47						Maria	Class	Van danag and maint fina		46.00			47.00								
The second se					gray	Very dense	Clayey SAND	Very dense, gray, moist, fine grained, low plastic Clayey SANE						50/15		•	P-45	47.00 47.30			L.
48													48.00	50/6		•	P-46	48.00 48.21			14 1
47 48 49 50 50 -45													49.00	50/7			P-47	49.00			
50										27.08.16			 50.00					49.22 50.00			5
	5.23	50.25	4.25							50.00				50/10		•	P-48	50.00			E
51								This borehole is terminated according to the termination criteri	· · · · · · · · · · · · · · · · · · ·				51.00								5
52													52.00								5
53													53.00								5
, in the second se																					Ē
													54.00								5
55													55.00								15
56													 56.00								шų,
, in the second													50.00								5
57													57.00								5
58													 58.00								5
50													50.00								Ē
, y 1													59.00								15
50													60.00								6
													 61.00								16
	NOTE Rela	E <u>S</u> ative den	sity desc	ription	Consis	tency descrip	otion	Sample key P-1 Disturbed sample (SPT sample) PBT Permeal	bility Test	Term		icture Spacing	(mm)		<u>Discontir</u> erm	nuities Spacing (r	nm)	F		N CO	LTD
R		e density	-	N-Value	Consistenc	eng	N-Value	T-1 Undisturbed Sample VS Vane Sh (Piston sampler) PMT Processor	near Test	Very thick Thick		> 600 -	2000 2000		lely spaced y spaced	> 20 600 - 20	00		Consultir Yangon	ng Engin Branch	neers
F		/ loose	-	0 - 4	Very soft Soft		inder 2 2 - 4	D-1 Undisturbed Sample (Denison sampler)		Medium Thin		200 -	600	Mediu	m spaced y spaced	200 - 6	00		el : 951 - 80 nov.myanma	10896, 959 - Irgeoconsult	420089762 ant.com
	Mediu	m dense ense	1	0 - 30 0 - 50	Firm		5 - 8 9 - 15	Rock core sample (Single core tube) Rock core sample Rock core sample 25 - 50	Very poor	Very thin hickly lamir		20 -	60	Very clo	sely spaced closely spac	20 - 6		Revision N Revision D		Rev: (
E		dense	-	0 - 50 wer 50	Very stiff	· 1	6 - 30	(Double core tube) Rock core sample	Fair	hinly lamin		6 -		Remarks	enosety space	< 20					
				L	Hard	c	over 30		0 Good 00 Excellent					1							

LOCATION : <u>Thanlyin Chin Kat Road, Thaket</u> GROUND LEVEL : <u>5.05m</u> COORDINATE : <u>E 203939.419 ; N 1859955.273</u> (ii) (ii) (ii) (ii) (ii) (iii)		BORING METHOE ORIENTATION GROUND WATER	D : RLEVEL :	: <u>Rotar</u> : <u>Vertic</u> : <u>1.50r</u> (III) HLdag Nalvw	m STANDARD P TEST ME (u) , VX/allee (u) ,	$- \frac{CLIENT}{2}$	Sheet <u>: 24.08.2016</u> ~ : 24.08.2016 ~ : 24	27.08.2016	
GROUND LEVEL : 5.05m COORDINATE : E 203939.419 ; N 1859955.273 (ii) (iii) (iii) (iii)	3 DEPTH : 50.00m ALLY BUDGED SOIL DESCRIPTION SOIL DESCRIPTION SOIL DESCRIPTION Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to to to edium SaND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	ORIENTATION GROUND WATER	R LEVEL :	: <u>Vertia</u> : <u>1.50</u> r MVLEK DEPTH (m)	cal STANDARD P TEST ME' (u) 'TD HLATO STANDARD P TEST ME' (u) 'TD HLATO (u) 'TD HLATO (u	CLIENT NIPP ENETRATION TEST THOD (ASTM) CURVE OF BLOW (Blows / 30cm)	SAMPL	ING	(96) 2 (m)
COORDINATE : E 203939.419 ; N 1859955.273 (u)	Losset to to cetume Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Soft to redium Silty SAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	GROUND WATER	R LEVEL :	MATER DEPTH (m)	m STANDARD P TEST ME (u) , VX/allee (u) ,	ENETRATION TEST THOD (ASTM) CURVE OF BLOW • N-Value (Blows / 30cm)	SAMPL	ING	(%)
Image: Constraint of the second sec	Losset to to cetume Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Soft to redium Silty SAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	dium to high		WATER DEPTH (m)	STANDARD P TEST ME' (u) - 'Juline (Blows' Juline (Blows' Juline) 0 1	THOD (ASTM) CURVE OF BLOW N-Value (Blows / 30cm)			(%)
Image: second	Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to silty to sAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	dium to high	CASING (DEPTH (m) DIAMETER (mm))		DEPTH GL - (m) N-Value (Blows / 30cm)	CURVE OF BLOW • N-Value (Blows / 30cm)			%) 7 (m)
Image: second	Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to silty to sAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	dium to high	CASING (DEP CASING (DEP DIAMETER		DEPTH GL -(r N-Value (Blows / 30cm	N-Value (Blows / 30cm)	SAMPLE SAMPLE (Type & No.) DEPTH GL - (m	ыск (20) SCR (%)	(%)
Image: second	Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to silty to sAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or	dium to high	CASINC			(Blows / 30cm)	SAM (Type DEPTH of	SCR (%	×
1 1	Soft CLAY Soft, brownish gray, moist, me plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to silty to sAND Loose to medium dense, gray, mo grained, Silty SAND, with trace or								RQD (%)
1 3.05 2.00 2.00 2.00 gray 1.55 3.50 1.50 brown Fin 1.55 3.50 1.50 x x gray 4 x x x x gray Lo 5 x x x x gray Lo 5 x x x x gray Lo 6 x x x x gray Lo 6 x x x x x x gray 10 -4.95 10.00 6.50 11 gray 10.00 6.50 11 gray gray St 13 -7.95 13.00 3.00	plasticity, CLAY (Filled Soil) Firm CLAY Firm, brown, moist, low to medi CLAY Loose to to redium Silty SAND Loose to medium dense, gray, mo grained, Silty SAND, with trace of				1.00				
3 1.55 3.50 1.50 brown Fit 4 1.55 3.50 1.50 x x gray Lo 4 x x x x gray Lo t t 6 x x x x gray Lo t t 6 x x x x x t t t 9 x x x x x x t t t 9 x x x x x x t t t t 10 -4.95 10.00 6.50 t t t t t 11 x x x x x x t t t t t 12 x x x x x x t t t t t 13 -7.95 13.00 3.00 t t t t t t	Firm CLAY Firm, brown, moist, low to medi CLAY Loose Silty Loose to medium dense, gray, mo redium	ium plasticity,		~	1.00		A-1 1.00		
3 1.55 3.50 1.50 1.50 4 1.55 3.50 1.50 1.50 4 1.55 3.50 1.50 1.50 5 1.50 1.50 1.50 1.50 5 1.50 1.50 1.50 1.50 6 1.50 1.50 1.50 1.50 6 1.50 1.50 1.50 1.50 7 1.50 6.50 1.50 1.50 10 -4.95 10.00 6.50 1.50 11 1.50 3.00 1.50 1.50 113 -7.95 13.00 3.00 1.50	Loose Silty Loose to medium dense, gray, mo grained, Silty SAND, with trace or	ium plasticity,		¥	2.00		A-2 2.00		L.
41	Loose Silty Loose to medium dense, gray, mo to SAND grained, Silty SAND, with trace of		3.00		3.00		A-3 3.00		1
10 -4.95 10.00 6.50 X X 11 gray St 12 gray St 13 -7.95 13.00 3.00 gray st 13 -7.95 13.00 3.00 gray st 14 gray st 15 -7.95 13.00 3.00 gray st 15 -7.95 13.00 3.00 gray st 16 -7.95 13.00 3.00 gray st 17 -7.95 13.00 3.00 gray st 17 -7.95 13.00 3.00 gray st 18 -7.95 13.00 3.00 gray st 19 -7.95 13.00 3.00 gray st 19 -7.95 13.00 3.00 gray st 10 -7.95 13.00 -7.95 13.00 3.00 gray st 10 -7.95 13.00 -7.95 13.00 -7.95 13.00 -7.95 10.00 -7	to SAND grained, Silty SAND, with trace or nedium		Ø112		4.00 10/20		3.50		E L
101 -4.95 10.00 6.50 X X 111 gray St 112 gray St 113 -7.95 13.00 3.00 second	nedium				- 10/30		4.45		1
101 -4.95 10.00 6.50 X X 111 gray St 112 gray St 113 -7.95 13.00 3.00 second	aense	f mica mineral			5.00 10/30	<u> </u>	P-2 5.00 5.45		
101 -4.95 10.00 6.50 X X 111 gray St 121					6.00 18/30		P-3 6.00 6.45		
101 -4.95 10.00 6.50 X X 111 gray St 121					7.00 6/30		P-4 7.00		ц. Д
101 -4.95 10.00 6.50 X X 111 gray St 121					8.00 10/30		P-5 8.00		
101 -4.95 10.00 6.50 X X 111 gray St 121				[8.45		m
11 12 12 13 13 13 13 13 13 13 13 13 13					- 12/30	P	9.45		عسلا
121 121 131 -7.95 13.00 3.00					<u>10.00</u> 4/30		P-7 10.00 10.45		
12 13 13 13 13 13 13 13 13 13 13 13 13 13	Soft Sandy Soft to very stiff, gray, moist, find to CLAY plasticity, Sandy CLAY, with				11.00 10/30	r I I I	P-8 11.00 11.45		
13 -7.95 13.00 3.00	stiff				12.00 19/30		P-9 12.00		
		24.08	8.16		13.00 21/30		P-10 13.00		
	Aedium Silty Medium dense to dense, gray,	moist, fine to	.00			[[13.45		
	dense sAND medium grained, Silty SAND	,			14.00 19/30	╡┫	P-11 14.00 14.45		
15 <u>1</u> de	dense GL- (25.00 ~ 25.45)m; dense, yel	llowish brown,			15.00 30/30		P-12 15.00 15.45		
16	fine to medium grained, SA observed as intercalated layer at th				16.00 23/30		P-13 16.00 16.45		
	GL-(28.00 ~ 30.00)m; medium	n dense, fine			17.00 32/30		P-14 17.00		
	grained, low plastic Clayey SA observed as intercalated layer at th						P-15 18.00		Ē,
							18.45		
					28/30	1	P-16 19.00 19.45		
					20.00 20/30	↓ ┥ │ │	P-17 20.00 20.45		
					21.00 27/30		P-18 21.00 21.45		
22					22.00 31/30		P-19 22.00		L.
233					23.00	ИЦ	P-20 23.00		
							23.45		Luni,
					24.00 25/30		P-21 24.00 24.45		
25					25.00 42/30		P-22 25.00 25.45		12
					26.00 15/30		P-23 26.00		
27					27.00 24/30		P-24 27.00		أشله
288							27.45		
					27/30		28.45		
		25.08 29.0	<u>8.16</u> .00		29.00 18/30	•	P-26 29.00 29.45		12
12 *** 18 *** 19 *** 19 *** 20 *** 21 *** 22 *** 21 *** 22 *** 23 *** 24 *** 25 *** 26 *** 27 *** 28 *** 28 *** 301 ***					30.00 30/30		P-27 30.00 30.45		
31 NOTES	Continue to next sheet		Planner struc		31.00	Discontinuities			1
Relative density description Consistency of	Samula bay	ability Test Ter				Disconditutes			
Relative density SPT N-Value (meas) Consistency Very loose 0 - 4 Very soft	(SFT sample) T D T	Verv				erm Spacing (1		KKEN CO.	
Loose 4 - 10 Soft Medium dense 10 - 30 Firm	cy description SPT N-Value 0:-1 Doturbed sample PBT Permene Image: strength of the strengen strength of the strength of the stre	Shear Test Thi	thick lick	> 2/ 600 - 2	2000 Very wi 2000 Widel	Spacing (n dely spaced > 20 y spaced 600 - 20	000 Cor 000 (Ya	nsulting Engi ngon Branch	ineers :h) 9 - 420069762
Dense 30 - 50 Stiff Very dense over 50 Very stiff	cy description SPT N-Value instant P-1 Doturbed sample PBT Perment Instant Instant/Perment PST Perment under 2 Instant/Perment PMT Pressure Q - 4 Instant/Perment Instant/Perment PMT Pressure RQD (% PA Reck core sample RQD (% RQD (%	Shear Test Very 1 remeter Test Thi (b) Term	thick tick dium	> 2 600 - 2 200 - 60 - 2	2000 Very wie 2000 Widel 600 Mediu 200 Closel	erm Spacing (r dely spaced > 20 y spaced 600 - 20 m spaced 200 - 6 ly spaced 60 - 20	000 000 500 00 00 00 00 00 00 0	nsulting Engli Ingon Branch	ineers h) 9 - 420089762 witant.com
Hard	cy description SPT N-Value Image Description Under 2 Description D	Very shear Test remeter Test Med %) Term 5 Very poor 0 Poor	thick iick dium	> 2 600 - 2 200	2000 Very wi 2000 Widel 600 Mediu 200 Closel 60 Very clo 60 Extremely	spacing (r dely spaced > 20 y spaced 600 - 20 m spaced 200 - 6	000 000 000 000 FURKEN www. Revision No.	nsulting Engli ngon Branch 951 - 8010896, 959 .myanmargeoconsul Rev:	ineers h) 9 - 420089762 witant.com

вс	RE H	OLE N	o. Bł	1-02				BC	RING	L O G	<u>j</u>						Job 1		KYB-20. eet No.		OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMENT	Г	: <u>TO</u> F	10 "D1"		_	DATE	: 24	4.08.201 <i>6</i>			
	CATIC			nlyin Chin K	Kat Road, T	haketa Tov	wnship.		BORING ME					t Circulation	- <u>CLIE</u>	NT_					
		LEVEL			1050055	272 DI	- DTU	50.00	ORIENTATIO		1/171	: <u>Ver</u>			-	NIP	PON KC	DEI CO)., LTI	D.	
	UKDIN		: <u>E 2</u> ()3939.419 ; 1	IN 1839955.	. <u>213</u> DI	seitti :_	50.00m	GROUND W.	ATEK LE	T	: <u>1.5(</u>		STANDARD F	- ENETRATIO	N TEST		C + 7 -	PLING		—
	(1		÷			NSITY				(iii)	CASING (DEPTH (m) & DIAMETER (mm))	(m)			THOD (AST				PLING		_
(m	ELEVATION (m)	iL - (m)	THICKNESS (m)	W	~	RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	(DEP1 ETER	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	CURVE OF I		SAMPLE (Type & No.)	DEPTH GL - (m)			Î
SCALE (m)	LEVAJ	DEPTH GL - (m)	HICKN	DIAGRAM	COLOUR	ELATI (or) CO	SOIL N			ATE&	DIAM	/ATER	EPTH 0	N-Va 3lows /	N-Va (Blows /	30cm)	SAM (Type.	EPTH C	TCR (%)	SCR (%)	RQD (%) SCALE (m)
s	Ξ		Τ	ц К. Х. Х.	gray	Medium	Silty	Medium dense to dense, gray, 1	noist, fine to			2		<i>⊂</i> 0 .	10 20 30	40 50		0	-	s c	2 S
3 <u>1</u>	-25.95	31.00	18.00	< x x		dense to dense	SAND	medium grained, Silty SAND		4			31.00	23/30	•		P-28	<u>31.00</u> 31.45			31
32					gray	Very	CLAY	Very stiff to hard, gray, moist, h	w to medium				32.00	24/30			P-29	32.00			32
33					gruj	stiff to	CLATT	plasticity, CLAY with fine graine					33.00		$ \rangle$			32.45 33.00			1
32 3 <u>3</u> 3 <u>4</u>						hard								33/30		۶	P-30	33.45			
34													34.00	38/30		•	P-31	34.00			<u>E3</u> 4
35	-29.95	35.00	4.00							4			35.00	41/30		k	P-32	35.00			35
36					gray	Dense	Clayey	Dense to very dense, gray, m					36.00	50/30			P-33	35.45 36.00			<u>∎</u> 3€
1 4						to very	SAND	medium grained, low plastic Claye					-					36.45 37.00			
37						dense							37.00	50/23		•	P-34	37.38			1
	32.95	38.00	3.00							{			38.00	50/28			P-35	38.00 38.43			<u>13</u> 8
39													39.00	24/30			P-36	39.00			39
40					gray	Very stiff	CLAY	Very stiff to hard, gray, moist, le plasticity, CLAY with fine grained					40.00	50/27		\searrow	P-37	39.45 40.00			4 (
40 41 41 42 43 44 44 44 45						to hard				26.00.17			41.00					40.42 41.00			
4										26.08.16 41.00	4		41.00	40/30			P-38	41.00			
42													42.00	50/25		\	P-39	42.00			42
4 <u>3</u>													43.00	50/20			P-40	43.00			42
44													44.00	32/30		$\boldsymbol{\mathcal{I}}$	P-41	44.00			44
45													45.00			\mathbb{N}		44.45			
													45.00	50/27		1	P-42	45.42			
46	-40.95	46.00	8.00							{			46.00	50/17		•	P-43	46.00 46.32			<u>14</u> 6
4 <u>7</u>					gray	Very dense	Clayey SAND	Very dense, gray, moist, fine grained, low plastic Clayey SAND	to medium				47.00	50/20			P-44	47.00 47.35			47
48								g					48.00	50/15			P-45	48.00			48
49													49.00			Í		48.30 49.00			E ₄
42														50/10		•	P-46	49.00			44/ 48
50	45.25	50.30	4.30							27.08.16 50.00			50.00	50/15		•	P-47	50.00 50.30			<u>50</u>
5 <u>1</u>								This borehole is terminated					51.00								51
52								according to the termination criteri	a.				52.00								52
53													53.00								
																					The second se
54													54.00								E54
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60													60.00								59 60 61
61													61.00								E61
	NOT Re	ES lative den	ity desc	ription	Consist	tency descrip	otion	Sample key P-L Disturbed sample PBT Permeal	ility Teet	Pla Term	anner stru	ucture Spacing			Discontinu Term	iities Spacing	(mm)				
		ve density	<u> </u>	N-Value	Consistenc		N-Value	Undisturbed Sample VS Vane Si (Piston sampler)		Very thick			2000	Very w	dely spaced ly spaced		2000		Consultin Yangon I	g Engine Branch)	eers
		y loose oose		0 - 4 4 - 10	Very soft Soft		under 2 2 - 4	PMT Pressur D-1 (Denison sampler) RQD (%) Term	Medium Thin	-	200 -	600	Medi	im spaced ly spaced	200 -	600 200		www.uryaranai	geocorisonar	n.com
	Medi	um dense ense	1	0 - 30 0 - 50	Firm		5 - 8 9 - 15	(Single core tube) 0 - 25 Rock core sample 25 - 50	Very poor	Very thin hickly lamin		20 -	60	Very cl	sely spaced closely space	20 -	60	Revision N Revision E		Rev: 0. 19.09.2	
		y dense		ver 50	Very stiff Hard	· 1	6 - 30 over 30	(Double core tube) Rock core sample (Core Loss) (Double core tube)	Fair	'hinly lamir		<		Remarks			1		!		\dashv
				L		`		W-I Water sample 90 - 10													

LOCA GROU	ATIO UND RDIN	N LEVEI	: Tha	ological Surv nlyin Chin k		upplement	survey for	Bago River Bridge Construction Project	DODDIC FO	IIPMENT	-	· TOF	10 "D1"								0 2014	
GROU	UND RDIN	LEVEI		nlyin Chin I	At Bood T			Bago River Bridge Construction Project	BORING EQ			. 101					DATE	: 20	0.08.2016	~ 24.0	8.201C	<u> </u>
COOF	RDIN		: <u>5.21</u>		vai Koau, 1	haketa Tov	vnship.		BORING ME					t Circulati	on	CLIENT	<u>r</u>					
(m) IV		unit	· E 20	03988.555 ;	N 1859910	930 DF	етн -	50.00m	ORIENTATIO			: <u>Ver</u>			—		NIPP	ON KC	DEI CO	., LT	D.	
ALE (m)	(m) (m)		. <u></u>		111033310	<u></u> DI			GROUND II		1			STANDARI					SAM	PLING		—
ALE (m)	ž		Ê			RELATIVE DENSITY (or) CONSISTENCY				(III) H	CASING (DEPTH (m) & DIAMETER (mm))	(m) H				D (ASTM)						_
ALE	<u> </u>	DEPTH GL - (m)	THICKNESS (m)	WV	Я	IVE DH	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	G (DEF METER	WATER DEPTH (m)	DEPTH GL - (m)	alue / 30cm)	con	N-Valu		SAMPLE (Type & No.)	GL - (n		3	(9)
S	ELEVA	DEPTH	THICK	DIAGRAM	COLOUR	RELAT (or) C	SOIL N			DATE	CASIN	WATE	DEPTH	N-Value (Blows / 30cm)		(Blows / 30)cm) 40 50	SA) (Type	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALF (m)
					brownish	Soft	CLAY	Soft, brownish gray, moist, mee	lium to high		1.00								1.00			
1					gray			plasticity, CLAY (Filled Soil)			1.00 Ø112		1.00					A-1	1.00 1.50			
	.21	2.00	2.00							-		¥	2.00					A-2	2.00			12
3					brown	Firm	CLAY	Firm, brown, moist, low to medi CLAY	um plasticity,			*	3.00	5/30	2			P-1	3.00 3.45			n in the second s
4 1.	.21	4.00	2.00							20.08.16			4.00	7/30				₽-2	4.00			1
5				× × ×	gray	Very	Silty	Very loose to medium dense, gray,	moist to wet,	4.00			5.00		χ			P-3	4.45			E .
				× × × × × ×		loose to	SAND	fine grained, Silty SAND, with t mineral	race of mica					14/30	ľ				5.45			
				*		medium dense							6.00	14/30	1			P-4	6.00 6.45			
5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				«				GL- (4.00 ~ 4.45)m; loose, gray, low plastic Clayey SAND layer i					7.00	9/30	1			P-5	7.00 7.45			
8				« × × « × ×				intercalated layer at that depth					8.00	3/30				P-6	8.00 8.45			سأس
<u>9 -3.</u>	.79	9.00	5.00	× × ×						ļ			9.00	6/30				P-7	9.00			ىلىسە
10				× × × ×	gray	Firm	Sandy	Firm to stiff, gray, moist, fine					10.00	11/30	V			P-8	9.45 10.00			
				. x . x . x . x . x . x		to stiff	SILT	plasticity, Sandy SILT, with tr mineral	ace of mica				11.00		Ι				10.45 11.00			E.
1 <u>1</u> 1 <u>2</u>				× × × × × ×										6/30	1			P-9	11.45			
12				× × ×									12.00	9/30	ł			P-10	12.00 12.45			
1 <u>3 -8</u> .	.79	13.00	4.00							-			13.00	11/30				P-11	13.00 13.45			
14_				«	gray	Medium	Silty	Medium dense to dense, gray, r	noist, fine to				14.00	31/30		\mathbb{N}		P-12	14.00			
14 15 16				× × × × × ×		dense to	SAND	medium grained, Silty SAND					15.00	13/30		ΥI		P-13	14.45 15.00			
16				<		dense		GL- (23.00 ~ 23.45)m and (26.0					16.00			\mathbb{N}		P-14	15.45 16.00			
				× × ×				loose and medium dense, gray, fin grained, low plastic Clayey SA	ND layer is					27/30		Ĩ			16.45			
1/				* × × * * *				observed as intercalated layer at th	ose depths				17.00	26/30				P-15	17.00 17.45			
18				« × ×									18.00	16/30	۲			P-16	18.00 18.45			
19				* * *									19.00	24/30		$ \mathbf{e} $		P-17	19.00 19.45			
20				* * *									20.00	27/30				P-18	20.00			1
2 <u>1</u>				× × × × × ×									21.00	29/30				P-19	20.45 21.00			
22													22.00			И			21.45 22.00			in the second se
				*										18/30				P-20	22.45			L.
23				«									23.00	9/30	٩			P-21	23.00 23.45			12 11
2 <u>4</u>				X X X									24.00	21/30				P-22	24.00 24.45			12
175 185 195 205 205 205 205 205 205 205 205 205 20				× × ×									25.00	18/30				P-23	25.00			
2 <u>6</u>				«									26.00	15/30				P-24	25.45 26.00			1
27				x x x									27.00			N			26.45 27.00			
				« * *										30/30				P-25	27.45			il mui
20				* * * * * *									28.00	31/30				P-26	28.00 28.45			-12
2 <u>9</u>				« × × « × ×									29.00	20/30		$\left\{ \right\ $		P-27	29.00 29.45			12
3 <u>0</u>				×						22.08.16 30.00			30.00	22/30		•		P-28	30.00 30.45			ш <u></u>
		75		* * * * * *				Continue to next sheet Sample key			annos -'	lutur-	31.00		Ĩ	HILL Head			50.45			3
│ ∟ै	Rel	E <u>S</u> lative den			Consis	tency descrip		Sample key P-1 Disturbed sample (SPT sample) PBT Permeal		Term Very thick		Spacing	g (mm) 2000	Vers	D Term widely :	viscontinuiti spaced	spacing (n > 20					
R		ve density y loose		N-Value (meas) 0 - 4	Consistend Very soft	9	N-Value (meas)	Undisturbed Sample VS Vane Si (Piston sampler) PMT Pressure		Thick Medium		> 600 - 200 -	2000	W	dely spa dium sp	nced	> 20 600 - 20 200 - 6	00		Consultir Yangon w: 951 - 80	Branch 10896, 959	1) - 420089762
	L	oose um dense		4 - 10	Soft		2 - 4 5 - 8	D-1 (Denison sampler) Rock core sample (Single core tube) 0 - 25		Thin Very thir	1	60 - 20 -	200	Cl	sely spa closely :	aced	60 - 20 20 - 60	0	FUKKEN " Revision N	rww.uryanina	Rev:	narx.com
ΙF	D	ense / dense	3	30 - 50 over 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample Double core tube) Rock core sample	Poor T	hickly lamin hinly lamin	nated	6 -	20			ely spaced	< 20		Revision D	ate	19.09	9.2016
				Ľ	Hard		over 30	Rock core sample (Core Loss) 75 - 90 W-1 Water sample 90 - 10	Good													

во	RE H	OLE N	o. Bł	I-03				<u>B (</u>	O R I N G	L O (<u>,</u>						Job		FKYB-2 heet No.		5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	vey on the s	supplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMEN	Г	: <u>TO</u> F	10 "D1"		_	DATE	: 2	0.08.201			
LO	CATIC	N	: <u>Tha</u>	nlyin Chin I	Kat Road, T	haketa Tov	wnship.		BORING ME	THOD		: <u>Rota</u>	ary Direc	t Circulation		NT					
		LEVEL							ORIENTATIO			: <u>Vert</u>			-	NI	PON K	OEI CO)., LI	D.	
CO	ORDIN	IATE	: <u>E 20</u>)3988.555;	N 1859910	.930 DI	EPTH :_	50.00m	GROUND W.	ATER LE	VEL	: 2.50			-						
						č∆				Ê	CASING (DEPTH (m) & DIAMETER (mm))	(H		STANDARD TEST MI	PENETRATIC ETHOD (AST			SAN	APLING		
	(ii) N	(ii)	S (m)			RELATIVE DENSITY (or) CONSISTENCY	ш	SOIL DESCRIPTION		DATE & DEPTH (m)	EPTH ER (m	WATER DEPTH (m)	(II)	(H	CURVE OF	BLOW •	(ie)	Ē			
E (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	UR	TIVE	NAME			& DI	NG (D	ER DE	DEPTH GL - (m)	Value s / 30c	N-V	alue	SAMPLE (Type & No.)	HGL	(%)	(%	(%)
SCALE (m)	ELEV	DEPT	THIC	DIAG	COLOUR	RELA (or)	SOIL			DATE	CASI	WAT	DEPT	N-Value (Blows/30cm)	(Blows 10 20 3	,	0 SE	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%)
				xxx	gray	Medium dense to	Silty SAND	Medium dense to dense, gray, i	noist, fine to												E
31	25.79	31.00	18.00	× × ×	gray	dense Very	CLAY	medium grained, Silty SAND Very stiff, gray, moist, low	to medium	-			31.00	25/30	\		P-29	31.00			
2	26.79	32.00	1.00		gruy	stiff	CLITT	plasticity, CLAY with fine graine	d sand				32.00	35/30		\mathbf{N}	P-30	22.00	1		
									. ~					55/50		$I \mid I$		32.45	1 1		
3					gray	Medium dense	Clayey SAND	Medium dense to dense, gray, a medium grained, low plastic Claye					33.00	28/30			P-3	33.00			
4						to very							34.00	45/30			P-32	34.00			
, I						dense							35.00					34.45	-		
, I														50/27			P-33	35.42			i i
6	30.79	36.00	4.00							-			36.00	33/30		•	P-34	36.00			
7					gray	Very	CLAY	Very stiff to hard, gray, moist, l	ow to medium				37.00	31/30			P-35	27.00	1 1		
						stiff to		plasticity, CLAY with fine graine	d sand					51/30				37.45]		
ů I						hard							38.00	31/30		♥┃┃	P-36	38.00 38.45	1		1
9													39.00	39/30			P-37	39.00			
771000000000000000000000000000000000000													40.00				P-38	<u>39.45</u> 40.00	1 1		E L
1														27/30	[¶]		P-38	40.45			
1													41.00	37/30		Ì	P-39	41.00			i li
2													42.00	37/30			P-40	42.00]		i i i
2													42.00					42.45	1		
3													43.00	50/30			P-43	43.00			Ē
4	38.79	44.00	8.00							-			44.00	50/25		•	P-42	44.00			E.
5										23.08.16			45.00	50/25			P-43	45.00	1		
5					gray to	Very dense	Clayey SAND	Very dense, gray to brownish gra to medium grained, low plastic Cl		23.08.16 45.00	1			50/25			P-4:	45.40			يلسلنه
6					brownish gray								46.00	50/18		•	P-44	46.00			سلئم
7													47.00	50/18			P-4:	47.00			لأسله
ساستلستناس													48.00					10 00	1 1		i kuutui kuutui kuutui kuutui ku
2														50/17		•	P-46	48.32			1 mil
													49.00	50/17			P-47	49.00			Ē
ΟĒ										24.08.16	5		50.00	50/22			P-48	50.00]		
-	45.16	50.37	6.37							50.00				50/22				50.37			
								This borehole is terminated according to the termination criteri					51.00								Ē
2								5					52.00								
3													53.00								
																					Lunda Lunda
													54.00								
													55.00								ملتنسل
THII I													56.00								шш
11111																					للسلة
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I													50.00								
1													59.00								ուլիսորություն
													60.00								ماشير
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╞		ative den		N-Value	Consis	tency descrip	otion FN-Value	(SPT sample) PBT Permea D T_1 Undisturbed Sample VS Vane Si	bility Test hear Test	Term Very thicl			2000	Very w	Term idely spaced		ng (mm) > 2000		FUKKE Consult	ng Engi	neers
╞		/ loose		(meas) 0 - 4	Very soft	t ı	(meas) ander 2	PMT Pressur D-1 (Denison sampler) D-1 (Denison sampler)	emeter Test	Thick Medium		600 - 200 -	600	Medi	ely spaced um spaced	200	- 2000 - 600	FGEX	(Yangor Tel: 951 - 80 www.myanm	Branch	- 42008976
F		oose m dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	RQD (% Rock core sample (Single core tube) 0 - 25		Thin Very thi	n	60 - 20 -			ely spaced osely spaced		- 200 - 60	Revision 1		Rev:	02
F	D	ense / dense	3	0 - 50 over 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube)) Poor T	hickly lami hinly lamir	nated	6 -	20	Extremel	y closely space	_	< 20	Revision I	Date	19.09	9.2016
L	, 61				Hard		over 30	(Core Loss) 75 - 90) Good	, amm		~ (-	Remarks							
								w-i Water sample 90 - 10	00 Excellent												

во	ORE H	OLE N	lo. BH	1-04				<u>B C</u>	RING	L O (<u>j</u>							Job N		KYB-20 eet No.	16-015	
PF	OJECT	NAME	: <u>Geo</u>	logical Surv	vey on the	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	ЛРМЕN	Г	: <u>tof</u>	10 "D1"				DATE	: 20	.08.2016			
	CATIC			nlyin Chin I					BORING ME	THOD		: <u>Rot</u> a	ary Direc	et Circula	tion	CLIEN	<u>r</u>					·
		LEVEI							ORIENTATIO			: <u>Vert</u>					-	PON KO	DEI CO)., LT	D.	
CC	ORDIN	NATE	: <u>E 20</u>	04044.248;	N 1859862	. <u>131</u> DE	^{ертн} : _	50.00m	GROUND WA	ATER LE	1	: 2.00		STANDA	RD PENF	TRATION						
	(1		e e			NSITY				H (m)	CASING (DEPTH (m) & DIAMETER (mm))	1 (m)		TEST	Г МЕТНО	DD (ASTM)			PLING		-
(ii	II) NOL	jL - (m)	IESS (m	W	~	VE DEÀ NSISTE	NAME	SOIL DESCRIPTION		DEPTI	(DEP1 IETER (DEPTH	jL - (m)	hue 30cm)	CUI	RVE OF BI		SAMPLE (Type & No.)	jL - (m)			(Î
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	RELATIVE DENSITY (or) CONSISTENCY	SOIL N			DATE & DEPTH (m)	DIAM	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	0 10	N-Vali (Blows / 3	ue 0cm) 40 50	SAM (Type.	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	E	-	L			<u>щ</u>	~					-	-	0		20 30	40 50		D	1	00	- 0
					brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY	lium to high				1.00					A-1	1.00			
1 2								(Filled Soil)			2.00	¥	2.00					A-2	1.50 2.00			2
3	2.76	2.50	2.50		brown	Firm	CLAY	Firm, brown, moist, low to medi	um placticity		Ø112	•	3.00	5 /20				B w-1	2.50 3.00			13
3	1.04	4.00	1 50		biowii	1 mm	CLAI	CLAY	um plastienty,					5/30	N			P-1	3.45			
	1.26	4.00	1.50	× × ×						1			4.00	14/30				P-2	4.00			4
5				× × ×	gray	Medium dense	Silty SAND	Medium dense, gray, moist to wet Silty SAND, with trace of mica mi					5.00	13/30	•			P-3	5.00 5.45			5
6				× × × × × ×									6.00	16/30				P-4	6.00			6
7				× × ×									7.00	24/30				P-5	6.45 7.00			7
4 5 1 6 1 7 1 8 1 8				× × ×									8.00						7.45			E 8
<u>_</u>		0.00		× × × × × ×										21/30		1		P-6	8.45			يسسل
9	-3.74	9.00	5.00							1			9.00	5/30	Í			P-7	9.00 9.45			-9
10 1 <u>1</u>					gray	Firm to	Sandy CLAY	Firm to soft, gray, moist, fine plasticity, Sandy CLAY, with t					10.00	4/30	•			P-8	10.00 10.45			<u>1</u> 0
11						soft		mineral					11.00	4/30	$\left\ \right\ $			P-9	11.00			
12	-6.74	12.00	3.00										12.00	7/30				P-10	11.45 12.00			12
				× × ×			<i></i>	· · · · ·	<u></u>				13.00		I				12.45 13.00			12
1 <u>3</u> 1 <u>4</u> 1 <u>5</u>				× × × × × ×	gray	Loose	Silty SAND	Loose, gray, moist, fine grained, with trace of mica mineral	Silty SAND,					9/30	1			P-11	13.45			
14				× × ×				GL- (13.00 ~ 13.45)m; stiff, gray,					14.00	6/30	•			P-12	14.00 14.45			<u>=1</u> 4
15				× × ×				low plasticity, Sandy SILT layer i intercalated layer at that depth	is observed as				15.00	10/30	k			P-13	15.00 15.45			15
16	-10.74	16.00	4.00	× × × × × ×						20.08.16 16.00	<u>.</u>		16.00	28/30				P-14	16.00			16
17				× × × × × ×	gray	Loose	Silty	Loose to dense, gray, moist, fin	e to medium	10.00			· · ·	24/30				P-15	16.45 17.00			<u>1</u> 7
10				×		to dense	SAND	grained, Silty SAND					18.00			IT I			17.45 18.00			
103				× × × × × ×				GL- (25.00 ~ 25.45)m & (27.00						25/30		•		P-16	18.45			
19				× × × × × ×				dense, gray, fine to medium graine Clayey SAND layer is observed a					19.00	25/30		•		P-17	19.00 19.45			<u>=1</u> 9
20				× × ×				layer at that depth					20.00	21/30		¥ I		P-18	20.00 20.45			20
2 <u>1</u>				× × × × × ×									21.00	21/30				P-19	21.00			18 19 20
22				× × × × × ×									22.00	8/30	V			P-20	21.45 22.00			22
22				× × ×									23.00		\mathbb{N}				22.45 23.00			
				× × × × × ×										20/30				P-21	23.45			<u> </u>
17 <u>-</u> 18 <u>-</u> 19 <u>-</u> 19 <u>-</u> 20 <u>-</u> 20 <u>-</u> 21 <u>-</u> 21 <u>-</u> 21 <u>-</u> 22 <u>-</u> 24 <u>-</u> 24 <u>-</u> 25 <u>-</u> 24				× × × × × ×									24.00	30/30				P-22	24.00 24.45			E24
25				×××									25.00	38/30)	P-23	25.00 25.45			25
26				×××									26.00	36/30			 	P-24	26.00			26
27				× × × × × ×									27.00	31/30			′	P-25	26.45 27.00			27
28				× × × × × ×									28.00			ľ			27.45 28.00			125
1 3				× × ×										37/30				P-26	28.45			<u> </u>
2 <u>9</u>	-23.74	29.00	13.00	* * *	gray	Very	CLAY	Very stiff, gray, moist, low	to medium	1			29.00	17/30				P-27	29.00 29.45			E29
3 <u>0</u> 31					0-*J	stiff		plasticity, CLAY with fine grained					30.00	20/30				P-28	30.00 30.45			<u>3</u> 0
31	NOT	ES						Continue to next sheet Sample key		DI	anner stru	cture	31.00			Discontinui	ies		2 3.10			31
	Re	lative den				tency descrip		P-1 Disturbed sample (SPT sample) PBT Permeat	bility Test	Term Very thicl		Spacing	g (mm) 2000	Ve	Term ry widely		Spacing (UKKEI Consultin		
		ve density y loose		N-Value (meas) 0 - 4	Consistend Very soft	,	N-Value (meas) under 2	PMT Pressure , Undisturbed Sample	near Test	Thick Medium		600 - 200 -	2000		Widely sp Aedium sp	aced	600 - 2 200 -	:000		Yangon	Branch)	420089762
	L	oose um dense		4 - 10 0 - 30	Soft		2 - 4 5 - 8	D ⁻¹ (Denison sampler) Rock core sample (Single core tube) ROD (% 0 - 25		Thin Very thi		60 - 20 -	200		Closely sp ry closely	aced	60 - 2 20 -	.00 50	FUKKEN [®] Revision N	o.	Rev: ()2
	D	ense y dense	3	i0 - 50 over 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 50 - 75	Poor T	hickly lami hinly lamir	nated	6 -	20		mely clos	sely spaced	< 2		Revision D	ate	19.09.	2016
				Ľ	Hard		over 30	Rock core sample (Core Loss) 75 - 90 W-1 Water sample 90 - 10	Good													
<u> </u>									·													

во	ORE H	OLE N	o. Bł	1-04				<u>B</u> (DRING	LOG	Ì							Job N		KYB-20 eet No.	1	0F 2
PF	ROJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	ЛРМЕNT	7	: <u>TO</u> F	10 "D1"		_	D	ATE	: 20	0.08.2016			
	OCATIC			nlyin Chin K	at Road, T	haketa Tov	vnship.		BORING ME					t Circulatio	<u>n</u> <u>CLI</u>	ENT						
		LEVEL							ORIENTATIO			: <u>Vert</u>			-		NIPF	ON KO	DEI CO)., LT	D.	
	JURDI	NATE	: <u>E 2</u> ()4044.248 ; 1	N 1859862	. <u>131</u> DE	з ^{итн} :_	50.00m	GROUND WA	ATER LE		: 2.00	-	STANDARD			ST		SAM	PLING		
	(u		Ê			RELATIVE DENSITY (or) CONSISTENCY				(m) H	CASING (DEPTH (m) & DIAMETER (mm))	(m) H			ETHOD (A		N O					_
(m)	NOIT (GL -(m	THICKNESS (m)	WV	×	IVE DH	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	3 (DEF	R DEPT	GL - (n	alue / 30cm)		-Value	-	SAMPLE (Type & No.)	GL - (n		~	(iii)
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICK	DIAGRAM	COLOUR	RELAT (or) C(SOIL N			DATE	CASIN	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows/30cm)	(Blow) 10 20	vs / 30cm	·	SAN (Type	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
31	-25 74	31.00	2.00		gray	Very stiff	CLAY	Very stiff, gray, moist, low plasticity, CLAY with fine graine					31.00		ΙΝ				31.00			31
		51.00	2.00		gray	Medium	Clayey	Medium dense to dense, gray,	moist, fine to					27/30	e	₹		P-29	31.45			
32 3 <u>3</u>					0,	dense to	SANĎ	medium grained, low plastic Clay					32.00	35/30				P-30	32.00 32.45			52
33						dense							33.00	30/30		×		P-31	33.00 33.45			<u>= 3</u> 3
34	-28.74	34.00	3.00										34.00	21/30	IK			P-32	34.00 34.45			34
35					gray	Very stiff	CLAY	Very stiff to hard, gray, moist, l plasticity, CLAY with fine graine		22.08.16 35.00			35.00	28/30		þ		P-33	35.00 35.45			35
36						to hard		Figure 1, Contraction and Brand					36.00	21/30				P-34	36.00			36
37													37.00					P-35	36.45 37.00			<u>3</u> 6
38													38.00					P-36	37.45 38.00			38
361 371 381 391 401 411 411													20.00			"			38.45 39.00			20
														23/30	(P-37	39.45			
40													40.00	28/30		٨		P-38	40.00 40.45			<u>140</u>
41													41.00	37/30		9		P-39	41.00 41.45			41
42													42.00	39/30				P-40	42.00			40 41 42 43
43	-37.74	43.00	9.00										43.00	50/23				P-41	43.00			43
44 45 46					gray	Very	Clayey	Very dense, gray to yellowish	brown moist				44.00	50/25				P-42	44.00			44
45					to yellowish	dense	SAND	fine to medium grained, low					45.00					P-43	44.40 45.00			44 45
46					brown								46.00						45.34 46.00			46
																		P-44	46.40			
4/1													47.00	50/18			•	P-45	47.00 47.33			
48													48.00	50/14			•	P-46	48.00 48.29			<u>E4</u> 8
49													49.00	50/15			•	P-47	49.00 49.30			49
50	-45.02	50.28	7.28							23.08.16 50.00	-		50.00	50/13			•	P-48	50.00			50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								This borehole is terminated					51.00						50.28			447 48 48 49 50 50
52								according to the termination criter	1a.				52.00									52
53													53.00									<u>5</u> 3
54													54.00									54
													55.00									
261													56.00									156 1111
57													57.00									57
58													58.00									58
59													59.00									59
60													 60.00									59 60
61													 61.00									61
	NOT Re	ES lative den			Consis	tency descrip			ibility Test	Term		Spacing			Discont Term		Spacing (F	UKKEI	۱ <u>co.</u> ,	LTD.
		ve density y loose		N-Value (meas) 0 - 4	Consistend Very soft	.у	N-Value (meas) inder 2	PMT Pressur	ihear Test	Very thick Thick Medium		> 600 - 200 -		Wid	videly spaced ely spaced ium spaced		> 2 600 - 2 200 -	000		Consultin Yangon W:951-801	Branch) 0896, 959 -) 420089762
	L	oose um dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	D-1 Undisturbed Sample (Denison sampler) Rock core sample (Single core tube) 0 - 2:		Thin Very thir	1	200 - 60 - 20 -	200	Clos	ely spaced losely spaced	d	60 - 2 20 - 0	00	FUKKEN Revision N	vww.myanma	rgeoconsulta Rev: (ant.com
	Γ	ense y dense	3	0 - 50 ver 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube) 50 - 7.	0 Poor TI	nickly lamin hinly lamin	nated	6 -	20		ly closely spa	_	< 20		Revision D	ate	19.09.	2016
				Ľ	Hard		over 30	(Core Loss) 75 - 9														
								90 - 1	ou Excellent													_

вс	RE H	OLE N	lo. BI	1-05				<u>B C</u>	RING	L O G								Job i		KYB-20 eet No.	16-015	
PF	OJECT	NAME	: <u>Geo</u>	logical Surv	vey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	JIPMENT	[: <u>to</u> f	10 "D1"				DATE	: 19	9.08.2016			
LC	CATIC	N	: <u>Tha</u>	nlyin Chin I	Kat Road, T	haketa Tov	wnship.		BORING ME	THOD		: <u>Rota</u>	ary Direc	et Circulati	on	CLIENT	<u>r</u>				-	
		LEVEL			N 1850922	064 10	арти .	51.00m	ORIENTATIO			: <u>Ver</u>					NIPI	PON KO	DEI CO)., LT	D.	
	URDI	NATE	: <u>E 2</u> (J4U91.678 ;	IN 1859823.		EPTH :_	51.00m	GROUND WA	ATER LE	1	: 2.50		STANDARI TEST N					SAM	IPLING		\top
	(m)	ē	Û			RELATIVE DENSITY (or) CONSISTENCY				(m) H1	CASING (DEPTH (m) & DIAMETER (mm))	(m) H)	÷			DD (ASTM						-
(ii)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	WV	¥	TVE DI	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	G (DEI METER	WATER DEPTH (m)	DEPTH GL - (m)	/alue / 30cm)		N-Valu		SAMPLE (Type & No.)	GL - (n	0	0	(m)
SCALE (m)	ELEVA	DEPTH	THICK	DIAGRAM	COLOUR	RELAT (or) C	SOIL			DATE	CASIN DIA	WATE	DEPTH	N-Value (Blows/30cm)	10	(Blows / 30 20 30	0cm)	SAI (Typ	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
					brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY with fine grained					1.00						1.00			
1 2					to yellowish			(Filled Soil)	Suite				-					A-1	1.50			The second se
1 1	2.50	2.50	2.50		brown						2.00 Ø112	¥	2.00					A-2	2.00			12
3					yellowish brown	Soft	Sandy CLAY	Soft, yellowish brown, moist, fine to medium plasticity, Sandy CLAY					3.00	2/30				P-1	3.00 3.45			3
	1.00	4.00	1.50	 X X									4.00	12/30				P-2	4.00			4
5				×××	gray	Loose	Silty	Loose to medium dense, gray, mo					5.00	4/30				P-3	5.00			115
6				× × ×		to medium dense	SAND	grained, Silty SAND, with trace of	mica mineral				6.00	9/30	Υ.			P-4	5.45 6.00			6
4 5 6 7 7 8 8				×				GL- (5.00 ~ 5.45)m; soft, gray, low to medium plasticity, Sandy C					7.00					P-5	6.45 7.00			1 7
				× × ×				observed as intercalated layer at th					-	8/30	Ĭ				7.45			مسسم
				× × × ×									8.00	11/30				P-6	8.45			مسلم
9	-4.00	9.00	5.00	× × ×									9.00	4/30				P-7	9.00 9.45			<u>19</u>
10 11 12 13				× × × × × ×	gray	Soft to	Sandy SILT	Soft to stiff, gray, moist, fine plasticity, Sandy SILT, with tr					10.00	7/30				P-8	10.00 10.45			
11				× × × × × ×		stiff		mineral	or miled				11.00	5/30	$\left\{ \left\ \right\ \right\}$			P-9	<u>11.00</u> 11.45			
12				× × ×				Sand percent is increased in some	portion.				12.00	9/30	V			P-10	12.00			11
13				xxx									13.00	12/20	Ν			P-11	12.45 13.00			1
14	-9.00	14.00	5.00	× × ×									14.00	13/30					13.45 14.00			
	-9.00	14.00	5.00	× × × × × ×									-	19/30		۱ (P-12	14.45			
1 <u>5</u> 16				× × × × × ×	gray	Loose to medium	Silty SAND	Loose to medium dense, gray, 1 medium grained, Silty SAND	noist, fine to				15.00	20/30		†		P-13	15.00 15.45			
16				× × × × × ×		dense		GL- (14.00 ~ 14.45)m and (25.0	$0 \sim 25.45$)m ²				16.00	17/30		4		P-14	16.00 16.45			10
				× × ×				medium dense, gray, fine to med low plastic Clayey SAND layer i	dium grained,				17.00	25/30				P-15	17.00			
18				× × ×				intercalated layer at those depths		19.08.16 18.00			18.00	20/30		4		P-16	18.00			1
19				× × × × × ×						18.00			19.00	22/30				P-17	18.45 19.00			19
20				× × × × × ×									20.00			T.			19.45 20.00			
201				× × × × × ×									-	22/30				P-18	20.45			
17 <u>1</u> 18 20 21 22 23 24 24				× × ×									21.00	12/30	Í			P-19	21.00 21.45			1 21
22				× × × × × ×									22.00	10/30				P-20	22.00 22.45			<u>1</u> 22
2 <u>3</u>				* * * * * *									23.00	15/30		۱I.		P-21	23.00 23.45			23
24				* * * * * *									24.00	22/30				P-22	24.00			2
2 <u>5</u>				× × ×									25.00	15/30		1		P-23	24.45 25.00			2:
26	-21.00	26.00	12.00	× × × × × ×									26.00		$\ $				25.45 26.00			1
		_ 3.30								1			-	12/30	Î			P-24	26.45			in the second se
2/2					gray	Stiff to	CLAY	Stiff to hard, gray, moist, low plasticity, CLAY with fine grainer					27.00	14/30				P-25	27.00 27.45			<u>12</u>
2 <u>8</u>						hard		passient, chiri with the gidnet	- 34114				28.00	15/30		<u>\</u>		P-26	28.00 28.45			28
29													29.00	21/30				P-27	29.00 29.45			<u>12</u>
2 <u>71</u> 2 <u>8</u> 2 <u>9</u> 30													30.00	20/30				P-28	30.00			
31								Continue to next sheet					31.00			\mathbb{N}			30.45			3
	NOT Re	ES lative den			Consis	tency descrip			bility Test	Pla Term Very thick		Spacing	g (mm) 2000	Var	Term	Discontinuit	Spacing	(mm) 2000				
		ve density y loose		N-Value (meas) 0 - 4	Consistenc Very soft	,	N-Value (meas)	PMT Pressure PMT Pressure PMT Pressure	near Test	Very thick Thick Medium		> 600 - 200 -	2000	W	widely dely sp dium s	baced	> 2 600 - 2 200 -	2000		Consultir (Yangon ref: 951 - 80	Branch 10896, 959 -) 420069762
	L	oose um dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	D-1 Undisturbed Sample (Denison sampler) Rock core sample (Single core tube) 0 - 25		Thin Very thin	1	60 - 20 -	200	Cle	sely sp		200 - 200 - 20 - 20 - 20 - 20 - 20 - 20	200	Revision N	www.myanma	Rev:	ant.com
	D	ense y dense	3	0 - 50 over 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 50 - 75	Poor T	nickly lamin hinly lamin	nated	6 -	20			sely spaced	<2		Revision D	Date	19.09	.2016
				Ľ	Hard		over 30	(Core Loss) 75 - 90														
<u> </u>								·الـــــــــــــــــــــــــــــــــ	· · · · · · · · · · · · · · · · · · ·													

BC	RE H	OLE N	o. BH	1-05				BO	RING	L 0 (<u>j</u>					Job 1		KYB-2010 eet No.	5-015 2 OI	F 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	/ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	UIPMEN	Г	: <u>TO</u>	10 "D1"		DATE	: 19		5 ~ 23.08.		
	CATIC			nlyin Chin k	Kat Road, T	haketa Tov	wnship.		BORING ME	THOD		: <u>Rot</u>	ary Direc	t Circulation	- <u>CLIENT</u>					
		LEVEL							ORIENTATIO			: <u>Ver</u>				PPON KO	DEI CO)., LTD		
	ORDIN	NATE	: <u>E 20</u>	04091.678 ;	N 1859823.		EPTH : _	51.00m	GROUND W	ATER LE	T	: 2.50			ENETRATION TEST		SAM	IPLING		\top
	(II)	Ê	Ē			RELATIVE DENSITY (or) CONSISTENCY				DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	(m) H1	(i		THOD (ASTM) CURVE OF BLOW					-
(m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	WV	¥	IIVE D.	NAME	SOIL DESCRIPTION		& DEP	G (DE METEF	WATER DEPTH (m)	DEPTH GL - (m)	/alue / 30cm	N-Value	SAMPLE (Type & No.)	GL - (1	0 0		(III)
SCALE (m)	ELEV/	DEPTH	THICK	DIAGRAM	COLOUR	RELA'. (or) C	N TIOS			DATE	CASIN DIA	WATE	DEPTh	N-Value (Blows / 30cm)	(Blows / 30cm) 0 20 30 40 5	0 SAI	DEPTH GL - (m)	TCR (%)	RQD (%)	SCALE (m)
3 <u>1</u>					gray	Stiff to	CLAY	Stiff to hard, gray, moist, low	to medium				31.00				31.00			1
1 7	27.00	32.00	6.00			hard		plasticity, CLAY with silt					32.00				31.45 32.00			in the second se
	27.00	52.00	0.00		gray	Very	Clayey	Very dense, gray, moist, fine	to medium	1				50/28		P-30	32.43			
3 <u>3</u>						dense	SAND	grained, low plastic Clayey SAND	1	20.08.16 33.00			33.00	50/21		P-31	33.00 33.36			132
	-29.00	34.00	2.00							-			34.00	27/30		P-32	34.00 34.45			<u>13</u> 4
35					gray	Very stiff	CLAY	Very stiff to hard, gray, moist, lo plasticity, CLAY with fine grained					35.00	41/30		P-33	35.00 35.45			135
36						to hard		Thinly fine grained sand layer is	including in				36.00	29/30	8	P-34	<u>36.00</u> 36.45			<u>-</u> 36
37								this layer GL- $(35.00 \sim 35.45)$ m; dense,	grav, fine to				37.00	20/30		P-35	37.00 37.45			37
35 36 37 38 39 40								medium grained, low plastic C layer is observed as intercalated	layey SAND				38.00	33/30		P-36	38.00 38.45			ш <u>з</u> е
3 <u>9</u>								depth					39.00	33/30		P-37	39.00			39
40													40.00	29/30		P-38	39.45 40.00			4(
	-36.00	41.00	7.00										41.00	50/20		P-39	40.45 41.00			4
42						D	a	Dense to some dance becau	:-1 <i>t</i> .				42.00				41.35			4
42 43 44 45					brownish gray to	Dense to very	Clayey SAND	Dense to very dense, brown yellowish brown, moist, fine grained, low plastic Clayey SAND	to medium							P-40	42.42			in the second se
43					yellowish brown	dense		granice, fow plastic endycy brinds					43.00	50/25		P-41	43.00			
44													44.00	50/26		P-42	44.00 44.41			<u>14</u> 4
4 <u>5</u>													45.00			P-43	45.00 45.45			45
4 <u>6</u>													46.00	50/30		P-44	46.00			40
										22.08.16 47.00	<u>,</u>		47.00	50/25		P-45	47.00			147 1147
48													48.00	50/20		P-46	48.00 48.35			48
49													49.00	50/17		P-47	49.00			49
50													50.00	50/19		P-48	50.00			5
5 <u>1</u>										23.08.16	,		51.00			P_49	50.34 51.00 51.32			1151
52	-46.32	51.32	10.32					This borabala is tamminat-1	at 51.00~	51.00			52.00				51.32			44 49 50 51 51 51 51 54
52								This borehole is terminated according to the termination criteria					53.00							lun .
																				La contra
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61													54.00							
55													55.00							u55
56													56.00							E 56
5 <u>7</u>													57.00							57
58													58.00							58
59													59.00							1159 1159
60													60.00							59 60
61													61.00							E 61
	NOT Re	E <u>S</u> lative dens		-	Consis	tency descrip		Sample key P-1 Disturbed sample (SPT sample) PBT Permeab	ility Test	Term		Spacing				ig (mm)	F	FUKKEN	CO., L	TD.
		ve density y loose		N-Value (meas) 0 - 4	Consistenc Very soft	,	N-Value (meas)	Undisturbed Sample VS Vane Sh (Piston sampler) PMT Pressure		Very thicl Thick Medium		> 600 - 200 -		Widel	y spaced 600	> 2000 - 2000 - 600	FGEX ,	Consulting (Yangon Bi rel: 951 - 80108	anch) 96, 959 - 420	0089762
	L	oose im dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	D-1 (Denison sampler) Rock core sample 0 - 25	Term Very poor	Thin Very thi	n	60 - 20 -	200	Closel	y spaced 60	- 200	FUKKEN ^k Revision N	inww.myanmarge	Rev: 02	com
	D	ense y dense	3	0 - 50 over 50	Stiff Very stiff	. 1	9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 Rock core sample 50 - 75	Poor T Fair 1	hickly lami Thinly lamir	nated	6 - <	20				Revision D	Date	19.09.20	116
					Hard		over 30	(Core Loss) 75 - 90	Good Excellent											

вс	ORE H	OLE N	o. B I	I-06				<u>B C</u>) R I N G	L O (7							Job		KYB-20 leet No.	-	5 OF 2
PF	ROJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	UIPMEN	Г	: <u>TO</u>	HO "D1"				DATE	:	19.08.2016			
LC	OCATIC	N	: <u>Tha</u>	nlyin Chin F	Kat Road, T	haketa Tov	vnship.		BORING ME	THOD		: <u>Rot</u> a	ary Direc	et Circulat	ion	CLIEN	T					
I		LEVEL							ORIENTATIO			: <u>Ver</u>						PPON K	OEI CO)., LT	D.	
C	DORDIN	JATE	: <u>E 20</u>	94138.122 ;	N 1859780.	<u>059</u> DE	EPTH :_	50.00m	GROUND WA	ATER LE	1	: 2.20		STANDAR			N TEST			1PLING		— —
	(m)	<u>,</u>	(III)			JENSITY STENCY				(m) HT*	CASING (DEPTH (m) & DIAMETER (mm))	(m) HT	, Î			OD (ASTN RVE OF B	M) BLOW •					\neg
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	RELATIVE DENSITY (or) CONSISTENCY	L NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	SING (DI	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Va (Blows /		SAMPLE (Tyme & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	ELE	DEF	THI	DIA	COL		SOIL			DA'	CM	WA	DEF	0 ^(B)	10) 40 5	0	DEP	TCF	SCI	RQ
1 2	3.18	2.00	2.00		brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY (Filled Soil)			2.00		1.00	2/30				A-1 P-1	1.50 2.00			لأساسي
3	2.18	3.00	1.00		brown	Soft	CLAY	Soft, brown, moist, low to medi CLAY	um plasticity,		Ø112	¥	3.00	11/30				₽-2	2.45			
4				× × × × × ×	yellowish	Loose	Silty	Loose to medium dense, yellow	ish brown to				4.00	12/30				P-3	3.45 4.00			шщ ₄
5				× × × × × ×	brown to	to medium dense	SAND	gray, moist to wet, fine grained, with trace of mica mineral					5.00	5/30				P-4	4.45			
6				× × × × × ×	gray	dense		GL- (4.00 ~ 4.45)m; stiff, fine plasticity, Sandy CLAY layer is					6.00	8/30	Å			P-5	5.45 6.00			
				× × × × × ×				intercalated layer at that depth					7.00	13/30				Р-6	6.45 7.00 7.45			يأييس
8				* * * * * *									8.00	13/30	•			P-7	0.00			سليسلير سا
9				× × × × × ×									9.00	7/30				P-8	0.00			in the second seco
10	-4.82	10.00	7.00	× × ×						-			10.00	9/30	¥			P-9	10.00			
1 <u>1</u> 1 <u>2</u> 1 <u>3</u>				× × ×	gray	Firm to	Sandy SILT	Firm to stiff, gray, moist, fine plasticity, Sandy SILT, with trav					11.00	6/30				P-1	11.00			
12				× × × × × ×		stiff	SILT	matter	te of organie				12.00	13/30				P-1	12.00			
1 <u>3</u>				× × × × × ×						<u>19.08.16</u> 13.00	5		13.00	8/30				P-1	12.00			1 1 1
14	-8.82	14.00	4.00	× × × × × ×						-			14.00	15/30		,		P-1	1.4.00			ш <u>п</u>
1 <u>5</u> 16				× × × × × ×	gray	Medium dense	Silty SAND	Medium dense, gray, moist, fin grained, Silty SAND	e to medium				15.00	17/30		4		P-1-	15.00			
16				× × × × × ×									16.00	21/30		b		P-1	5 <u>16.00</u> 16.45			<u>1</u>
				× × × × × ×				GL- $(22.00 \sim 22.45)$ m; medium fine to medium grained, low p SAND layer is observed at that dep	lastic Clayey				17.00	23/30				P-1	5 <u>17.00</u> 17.45			
17 18 19 20 21 22				* * * * * *									18.00	15/30		$\left\{ \left \cdot \right \right\}$		P-1	7 <u>18.00</u> 18.45			
19				× × × × × ×									19.00	18/30		è		P-1	3 <u>19.00</u> <u>19.45</u>			
20				× × × × × ×									20.00	18/30				P-1	20.45			12 11 11
2 <u>1</u>				x x x x x x									21.00	29/30				P-2	$\frac{21.00}{21.45}$			12 11
1 3				× × × × × ×										21/30		×		P-2	22.45			12 1
13	-17.82	23.00	9.00	* * *		0.200	<i></i>	Stiff to					23.00	13/30	Í			P-2	23.45			
2 <u>4</u> 2 <u>5</u> 2 <u>6</u> 2 <u>7</u>					gray	Stiff to very	CLAY	Stiff to very stiff, gray, moist, lo plasticity, CLAY with fine grained					24.00	11/30				P-2	24.45			
25						stiff		GL- $(26.00 \sim 26.45)$ m; medium fine to medium grained, low p SAND layer is observed as interest	lastic Clayey				25.00	15/30		\		P-2-	25.45			12 1 1 1
26								SAND layer is observed as interca that depth	nated layer at				26.00	20/30				P-2	26.45			12 1 1
1 4		20.00											27.00	16/30				P-2	27.45			
1 7		28.00	5.00		gray	Medium	Clayey	Medium dense to dense, gray, 1	noist fine to	1			28.00	26/30				P-2	28.45			
29					gray	dense to	SAND	medium grained, low plastic Claye					29.00	36/30)	P-2	29.45			12 11 11
2 <u>9</u> 3 <u>0</u> 31						dense		Continue to next sheet					30.00	31/30				P-2	30.00			
214	NOT	E <u>S</u> lative den	sity desci		Consis	tency descrip	otion	Sample key P-1 Disturbed sample (SPT sample) PBT Permeal	bility Test	Term		Spacing	g (mm)		Term		Spacin	ng (mm)		FUKKE		, LTD.
		ve density y loose		N-Value (meas) 0 - 4	Consistenc Very soft	y	N-Value (meas) under 2	Undisturbed Sample	near Test	Very thic Thick Medium		> 600 - 200 -		W	/ widely 'idely sp edium s		600	> 2000 - 2000 - 600		Consulti (Yangon	Branch	1) - 420089762
	L Mediu	oose 1m dense	1	4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Image: Det (Denison sampler) RQD (% 0 - 25) RQD (% 0 - 25) RQD (% 0 - 25)	Very poor	Thin Very thi	n	60 - 20 -	200	C Very	osely sj closely	paced / spaced	60 20	- 200 - 60	FUKKEN Revision N	io.	Rev:	02
		ense y dense	_	0 - 50 ver 50	Stiff Very stiff Hard	· 1	9 - 15 6 - 30 over 30	Rock core sample (Double core tube) 25 - 50 Rock core sample (Core Loss) 50 - 75 75 - 90 75 - 90	Fair	hickly lami Thinly lami		6 - <		Extren Remark		sely spaced	1	< 20	Revision L	vate	19.09	9.2016
				L	Hard		over 30	Core Loss) 75 - 90 w-1 Water sample 90 - 10														

во	RE H	OLE N	o. BH	I-06				BC	RING	L O G	Ĩ							Job No	_	KYB-20. zet No.	_	OF 2
PR	OJECT	NAME	: <u>Ge</u> o	logical Surv	yey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ		-	: <u>TO</u> F	10 "D1"		_	DATE	3	: 19.0	08.2016			
	CATIC			nlyin Chin K					BORING ME					t Circulatio		NT						
		LEVEL							ORIENTATI			: <u>Ver</u> t			_		IPPON	I KOI	EI CO	., LTI) .	
	ORDIN	NATE	: <u>E 20</u>	04138.122 ; :	N 1859780.	<u>059</u> DI	EPTH : _	50.00m	GROUND W	ATER LE	-	: <u>2.20</u>		STANDARD								—
						SITY				Ē	CASING (DEPTH (m) & DIAMETER (mm))	(II)			PENETRATIC ETHOD (AST				SAMI	PLING		
	ELEVATION (m)	(III) - 7	THICKNESS (m)	5		RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	(DEPTI	WATER DEPTH (m)	L - (m)	0cm)	CURVE OF	BLOW	•	INO.)	(ii)			2
SCALE (m)	EVATI	DEPTH GL - (m)	lickne	DIAGRAM	COLOUR	LATIV sr) CON	IL NA			TE & I	SING (ATER I	DEPTH GL - (m)	N-Value (Blows/30cm)	N-V (Blows	alue / 30cm)		SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
SC SC	EL	DE	Ή	7IC	8 gray	Medium	To T	Medium dense to dense, gray, r	noist, fine to		ć	W,	DE	e 0	10 20 3	0 40	50	-	DE	TC	У ^с	SC F
	25.82	31.00	3.00		Pray	dense to dense	SAND	medium grained, low plastic Claye					31.00	29/30				P-30	31.00			3
32						Vami	CLAY	Very stiff to hard, gray, moist, low	, to modium	20.08.16			32.00					ŀ	31.45 32.00			13
					gray	Very stiff to	CLAY	plasticity, CLAY with fine graine		20.08.16 32.00	1			29/30					32.45			
33						hard		Thinly fine grained sand layer i	including in				33.00	19/30	Ý		I		33.00 33.45			<u>E3</u> 3
34								this layer	s menuonig m				34.00	22/30			I	P-33	<u>34.00</u> 34.45			34
35													35.00	33/30	$ \rangle$		I	P_34	35.00			34
36													36.00					ŀ	35.45 36.00			E3(
32 33 34 35 36 37														22/30					36.45			Ĩ
													37.00	34/30			F		37.00 37.45			30
	32.82	38.00	7.00							-			38.00	50/28			J I		38.00 38.43			38
39] 40] 41] 41] 42] 43] 44] 44] 44] 44] 44] 44] 44] 44]						D	C	Danca ta romo dono 11 - 1	hearry				39.00	34/30				P-38	39.00			1 39
40					yellowish brown	Dense to very	Clayey SAND	Dense to very dense, yellowish fine to medium grained, low p		22.08.16			40.00					ŀ	39.45 40.00			E E Ar
						dense		SAND		40.00	1			50/28			•	-39	40.43			40 41 42
4 <u>1</u>													41.00	50/10			• I	E	41.00 41.25			4
42													42.00	50/20			• I	d 41 L	42.00 42.35			42
4 <u>3</u>													43.00	50/10			L F	Г	43.00			4
													44.00					f	43.25			
													44.00	50/15			• I	P-43	44.00 44.30			4
45										23.08.16 45.00			45.00	50/22			• 1		45.00 45.37			4:
46													46.00	50/13			• I	P-45	$\frac{46.00}{46.28}$			4
													47.00	50/17					47.00 47.32			4
4 <u>7</u> 4 <u>8</u> -	12 82	48.00	10.00										48.00						47.32 48.00			
	42.02	40.00	10.00		gray	Hard	CLAY	Hard, gray, moist, low to medi	um plasticity	1				50/11			• I	·-+/ F	48.26			The second se
49 50					gray	IIaiu	CLAI	CLAY with silt Thinly fine grained sand layer i					49.00	50/12			• I	- E	49.00 49.27			
50	45.08	50.26	2.26					this layer	s menuding m	24.08.16			50.00	50/11			•		50.00			5
5 <u>1</u>								This borehole is terminated	at 50.00m,				51.00						50.26			5
52								according to the termination criteri	a.				52.00									5
53													53.00									E53
51 52 53 53 54 55 55 55 57 58 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50													54.00									54
55													55.00									115:
56													56.00									150
																						ľ.
57													57.00									5
58													58.00									5
59													59.00									59
60													60.00									1
																						159 100
61	NOT	_		لــــــــــــــــــــــــــــــــــــ			L,	Sample key			anner stru		61.00		Discontin							
╞		lative dens		ription N-Value	Consist Consistenc	tency descrip	otion FN-Value	Undisturbed Sample VS Vane SI	pility Test near Test	Term Very thick			2000	Very v	Term /idely spaced		cing (mm) > 2000	╡║	- C		g Engine	eers
	Ver	y loose		(meas) 0 - 4	Very soft		(meas) ander 2	D-1 (Denison sampler) D-1 (Denison sampler)	emeter Test	Thick Medium		600 - 200 -	600	Med	ely spaced	20	0 - 2000			Yangon I n : 951 - 801 ww.myanmar	Branch) 1896, 959 - 4 geoconsultar	420089762
	Mediu	.oose um dense	1	4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Rock core sample (Single core tube) 0 - 25	Very poor	Thin Very thiu		60 - 20 -	60	Very c	ely spaced losely spaced	2	0 - 200		evision No		Rev: 0.	
)ense y dense	_	0 - 50 ver 50	Stiff Very stiff	1	9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 Rock core sample (Core Loss) 50 - 75 75 - 90 75 - 90	Fair	'hickly lamii Fhinly lamir		6 -		Extremel Remarks	y closely space	ed	< 20		evision De	ue	19.09.2	:010
				L	Hard		over 30	(Core Loss) 75 - 90	Good 0 Excellent													

во	RE H	OLE N	0. B E	I-07				<u>B</u> C	RING	L O (3							Job		KYB-2 heet No.	-	5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplement	survey for H	ago River Bridge Construction Project	BORING EQU	UIPMEN	Г	: <u>TO</u>	HO "D1"				DATE	: 1	8.08.201		_	
	CATIO		_	nlyin Chin K	Kat Road, T	haketa Tov	vnship.		BORING ME	THOD		: <u>Rot</u>	ary Dire	et Circula	tion	CLIEN	<u>T</u>					
		LEVEL							ORIENTATIO			: <u>Ver</u>					NIPI	PON KO	DEI CO)., LI	D.	
	ORDIN	NATE	: <u>E 20</u>	94182.001 ; 3	N 1859742	. <u>035</u> DE	^{.PIH} :_	50.00m	GROUND W.	ATER LE		: <u>1.9</u>		STANDA		NETRATION	TEST					
						SITY NCY				Ē	CASING (DEPTH (m) & DIAMETER (mm))	(II)				HOD (ASTM			SAN	APLING		
	ELEVATION (m)	(III) -	THICKNESS (m)	~		RELATIVE DENSITY (or) CONSISTENCY	WE	SOIL DESCRIPTION		DATE & DEPTH (m)	DEPTI TER (r	WATER DEPTH (m)	(m) - 1	le 0cm)	С	URVE OF BI	LOW O	LE No.)	(iii)			Ê
SCALE (m)	EVATI	DEPTH GL - (m)	ICKNE	DIAGRAM	COLOUR	LATIV r) CON	SOIL NAME			TE&I	SING (ATER I	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Val (Blows / 3	ue 30cm)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
sc	EL	DE	T	D.	22	RE (c	so			D/D	C	M.	DE	B	0 10	20 30	40 50		DE	TC	sc	R SC
L L					brown	Soft	CLAY	Soft, brown, moist, low plasticity fine grained sand	, CLAY with				1.00					A-1	1.00			
	3.27	2.00	2.00					(Filled Soil)			2.00		2.00						1.50			1
					brown	Soft	CLAY	Soft, brown, moist, low to medi-	um plasticity,	1	Ø112		- 2.00					A-2	2.50			1
3	2.27	3.00	1.00					CLAY		-			3.00	8/30	9			P-1	3.00	-		3
4				× × :	gray	Loose	Silty	Loose to medium dense, gray, moi					4.00	7/30				P-2	4.00			4
5				× × × × ×		to medium	SAND	grained, Silty SAND, with trace of	mica mineral				- 5.00	8/30				P-3	4.45			5
				× × :		dense		GL- (9.00 ~ 9.45)m; loose, fine plastic Clayey SAND layer is						- 8/30	Ĭ				5.45			
				× × × ×				intercalated layer at that depth					6.00	9/30	1			P-4	6.00 6.45	1		- Line
1				× × × ×									7.00	10/30	•			P-5	7.00			17
8				× ×						18.08.16 8.00	4		8.00	11/30				P-6	8.00			18
4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				× × × ×									- 9.00	7/30				P-7	8.45 9.00	1		
				× × × ×									- 10.00	.	I				9.45 10.00	$\left \right $		
1 <u>0</u>				××									- 10.00	8/30	1			P-8	10.00			
11	-5.73	11.00	8.00	× × × ×						-			11.00	6/30	٩			P-9	11.00	$\left \right $		1
12				× × ×	gray	Firm to	Sandy SILT	Firm to stiff, gray, moist, fine plasticity, Sandy SILT, with trac					12.00	10/30	Å			P-10	12.00			12
1 1	-7.73	13.00	2.00	×××		stiff		matter					13.00	13/30				P-11	12.45 13.00			1
				× × × ×]			-	13/30		\			13.45	$\left \right $		
14 15 16				××	gray	Medium dense	Silty SAND	Medium dense, gray, moist, fin- grained, Silty SAND	e to medium				14.00	17/30)		P-12	14.00 14.45			
15				× × × ×		dense	SAIND	granicu, Sitty SAND					15.00	13/30	•	$\langle $		P-13	<u>15.00</u> 15.45			15
16				××									16.00	17/30				P-14	16.00			10
				× × × ×									17.00	16/20				D 15	16.45 17.00			1
1.0				× × × ×										16/30		Ĭ II		1-15	17.45			
10				× ×)									18.00	17/30		•		P-16	18.00 18.45	1		
19				× × × ×									19.00	21/30				P-17	<u>19.00</u> 19.45	$\left \right $		19
20				× × × ×									20.00	29/30				P-18	20.00			20
17 18 19 20				××									21.00	24/30				_{P_10}	20.45 21.00	1		2
1 3	16 73	22.00	9.00	× × × ×									22.00	24/30		$X \parallel$			21.45			1
11	10.75	22.00	2.00							1			-	15/50		*		P-20	22.45			
2 <u>3</u>					gray	Stiff to	CLAY	Stiff to hard, gray, moist, low plasticity, CLAY with fine grained					23.00	15/30		\ 		P-21	23.00 23.45			23
24						hard		productly, CLIEF with the granice	a sund				24.00	18/30		4		P-22	24.00			24
2 <u>5</u>								GL- (26.00 ~ 26.45)m; dense, medium grained, low plastic C					25.00	24/30				P-23	24.45 25.00	1		2:
26								layer is observed as intercalated depth		1			26.00						25.45 26.00	$\left \right $		III III III III III III III III III II
201								aspin		19.08.16 26.00	Ϊ		26.00	33/30				P-24	26.45	1		
27													27.00	22/30		ø		P-25	27.00			<u>1</u> 27
28													28.00	19/30				P-26	28.00			2
2 <u>9</u>													- 29.00	20/30				P-27	28.45 29.00	1		2
30																\mathbb{N}			29.45	$\left \right $		
23 24 25 26 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29								Continue to next sheet						27/30				P-28	<u>30.00</u> <u>30.45</u>	1		
31	NOT	ES					I	Sample key		<u>P1</u>	anner stru		31.00			Discontinui	—		1			<u>E</u> 31
		lative den ve density		ription N-Value	Consis Consistenc	tency descrip	tion N-Value	U T 1 Undisturbed Sample VS Vane St	pility Test	Term Very thic			2000			ly spaced		000	37	FUKKE Consulti	ing Engi	neers
	Ver	y loose		(meas) 0 - 4	Very soft	ι, η Ι η	(meas) inder 2	D-1 (Piston sampler) D-1 (Danicon sampler) PMT Pressure	emeter Test	Thick Medium		600 - 200	- 600	N		spaced	600 - 2 200 -	600	FG∋X	(Yangor Tel : 951 - 8 www.myann	010896, 959	- 420089762
		oose im dense	1	4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Rock core sample (Single core tube) RQD (% 0 - 25	Very poor	Thin Very thi		60 - 20 -	- 60	Ve		ly spaced	60 - 2 20 -	60	Revision 1	Vo.	Rev:	02
		ense y dense	_	0 - 50 ver 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 Rock core sample 50 - 75	Fair	hickly lami Thinly lamii		6 - <		Extre Remai		losely spaced	< 2	0	Revision I	Date	19.0	9.2016
					Hard	с	over 30	Core Loss) 75 - 90	Good 0 Excellent						_							

вс	RE H	OLE N	o. BH	1-07				<u>B (</u>	RING	L O (j						Job N		KYB-20 eet No.		5 OF 2
PR	.0JECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplement	survey for H	ago River Bridge Construction Project	BORING EQ	UIPMEN	Г	: <u>TO</u>	10 "D1"		_	DATE	: 18	.08.2016			
	CATIO			nlyin Chin I	Kat Road, T	haketa To	wnship.		BORING ME					et Circulatio	n <u>CLIEN</u>	NT.					
		LEVEL			N 1859742.	.035 DI	EPTH :	50.00m	ORIENTATIO		VEL	: <u>Ver</u> : 1.90			-	NIPF	PON KC	DEI CC)., LT	D.	
H							-				1				PENETRATIO ETHOD (AST)			SAM	IPLING		Т
	(II)	î	(II)			RELATIVE DENSITY (or) CONSISTENCY				DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	(E)		CURVE OF E		3	Ē			
E (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	DUR	CONSIS	NAME	SOIL DESCRIPTION		E & DEI	NG (DI AMETE	ER DEF	DEPTH GL - (m)	N-Value (Blows/30cm)	N-Va	lue	SAMPLE (Type & No.)	DEPTH GL - (m)	(%)	(%)	(%) E (m)
SCALE (m	ELEV	DEPT	THIC	DIAG	COLOUR	RELA (or)	SOIL			DATE	CASI DL	WAT	DEPT	(Blow	(Blows / 10 20 30		S/ (Ty	DEPTI	TCR (%)	SCR (%)	RQD (%) SCALE (m)
31					gray	Stiff to	CLAY	Stiff to hard, gray, moist, low plasticity, CLAY with fine graine					31.00	20/30				31.00			31
3 <u>1</u> 32						hard		GL- $(26.00 \sim 26.45)$ m; dense,							$ \uparrow $			31.45	4		
32								medium grained, low plastic C layer is observed as intercalated	Clayey SAND				32.00	41/30			P-30	32.00 32.45			<u>= 3</u> 2
	-27.73	33.00	11.00					depth	-	-			33.00	50/30			P-31	<u>33.00</u> 33.45			33
34					vellowish	Dense	Claum	Dense to very dense, yellowish	warm maist				34.00	50/27			P-32	34.00			34
35					brown	to very	Clayey SAND	fine to medium grained, low p SAND, with trace of fine gravel					35.00	43/30			P-33	34.42 35.00			3:
36						dense		STATE, when there of fine gravel					- 36.00	45/50				35.45 36.00	$\left \right $		
												1	-	44/30			P-34	36.45			
37													37.00	36/30		$ \langle $	P-35	37.00 37.45			<u>13</u> 7
34 <u>1</u> 35 <u>1</u> 36 <u>1</u> 37 <u>1</u> 38 <u>1</u> 38 <u>1</u>												1	38.00	50/29			P-36	<u>38.00</u> 38.44			38
39	-33.73	39.00	6.00									1	39.00	39/30			P-37	39.00			39
40 41 42 43 44 44 45										20.08.16		1	- 40.00	50/23			P-38	39.45 40.00			14(
41					gray	Hard	CLAY	Hard, gray, moist, low to med CLAY with silt	um plasticity,	40.00		1	41.00					40.38			4
								Thinly fine grained sand layer i	s including in					50/17			P-39	41.00 41.32			
42								this layer	c 1 1				42.00	50/20		•	P-40	42.00			<u>4</u> 2
4 <u>3</u>								GL- $(39.00 \sim 39.45)$ m; the color chaged to yellowish brown color	or clay layer is				43.00	50/15		•	P-41	43.00 43.30			43
44													- 44.00	50/15			P-42	44.00			44
45													45.00	50/15			P-43	45.00			4:
46													- 46.00					45.30			4
													-	50/7			P-44	46.22			- Internet
47													47.00	50/17		•	P-45	47.00 47.32			<u>14</u> 7
48													48.00	50/20		•	P-46	48.00 48.35			48
49													49.00	50/16			P-47	49.00 49.31			49
50	15.05									22.08.16	5		50.00	50/17				50.00 50.32			44, 48, 49, 50, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51
51	-45.05	50.32	11.32					This howshole is terminated	at 50.00m	50.00			51.00	0.011				50.32			5
								This borehole is terminated according to the termination criter					-								
52													52.00								<u>1</u> 22
53												1	53.00								53
47 <u>1</u> 49 <u>1</u> 50 <u>1</u> 51 <u>5</u> 51 <u>5</u> 51 51 51 51 51 51 51 51 51 51 51 51 51												1	54.00								54
55												1	- 55.00								55
56												1	- 56.00								50
57													57.00								
												1	-								line in the second s
58												1	58.00								<u>15</u> 8
59												1	59.00								59
60												1	- 60.00								60
61													- 61.00								60
	NOTI Rel	E <u>S</u> lative den:	sity desci	ription	Consis	tency descri	ption	Sample key P-1 Disturbed sample (SPT sample) PBT Permea	pility Test	Term		Spacing			Discontinu Term	Spacing (FUKKE		, LTD.
		e density		N-Value	Consistenc	,	N-Value		near Test	Very thicl Thick		600 -		Wie	videly spaced ely spaced	600 - 2	000		Consulti (Yangon	ng Engi Branch	ineers
	L	y loose oose		0 - 4 4 - 10 0 - 20	Very soft Soft		under 2 2 - 4	D-1 (Denison sampler) Rock core sample) Term	Medium Thin Very thi		200 -	200	Clos	ium spaced ely spaced	200 -	00	Revision N		argeoconsu Rev:	una.com
	D	im dense ense / dense	3	0 - 30 0 - 50 wer 50	Firm Stiff Very stiff		5 - 8 9 - 15 6 - 30	(Single core tube) 0 - 25 Rock core sample 25 - 50 (Double core tube) 50 - 75	Poor T	Very thi hickly lami Thinly lamir	nated	20 - 6 - <	20	Extreme	losely spaced y closely spaced	d < 2	50	Revision L			9.2016
	veņ	uciise	0	wei 30	Very sun Hard		6 - 30 over 30	(Core Loss) 75 - 90		anny ann	anou	<	v	Remarks							
L								90 - 10	Excellent												

вс	RE H	OLE N	lo. BH	1-08				BC	DRING	L O (J							Job N		KYB-20 eet No.	-	5 OF 2
PR	OJECT	NAME	: <u>G</u> eo	logical Surv	vey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	JIPMEN	Г	: <u>TO</u> F	10 "D1"		_	DA	ATE	: 17	7.08.2016			
	CATIC		_	nlyin Chin I	Kat Road, 7	Thaketa To	wnship.		BORING ME					t Circulatic	<u>CL</u>	IENT						
		LEVEL JATE			N 1859695	.127_ DE	EPTH :	50.00m	ORIENTATIC GROUND WA		VEL	: <u>Vert</u> : <u>3.00</u>					NIPPO	ON KC	DEI CO)., LT	D.	
							_				1			STANDARD TEST M	PENETRA' IETHOD (A		ST		SAM	PLING		Τ
	N (m)	(m)-	S (m)			DENSI	щ	SOIL DESCRIPTION		EPTH (m	DEPTH (ER (mm	EPTH (m	(m) -	(UI:	CURVE (OF BLOW	v o	E 40.)	(m) -			
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	RELATIVE DENSITY (or) CONSISTENCY	SOIL NAME			DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	(Blo	I-Value ws / 30cm		SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	EI	DI	Ш	ā	ö brown	⊒ © Soft	⊠ Sandy	Soft, brown, moist, fine grained, lo	ow to medium	ď	Ö	w		@ 0	10 20	30 4	0 50		DE	T	š	
							CLAY	plasticity, Sandy CLAY			1.00 Ø112		1.00					A-1	1.00 1.50			
2	3.76	2.00	2.00		brown	Soft	CLAY	(Filled Soil) Soft, brown, moist, medium to h	igh plasticity,				2.00	3/30				P-1	2.00 2.45			
3	2.76	3.00	1.00	< × ×				CLAY				¥	3.00	9/30	Y			P-2 ∎w-1	3.00 3.45			3
4				* * * * * *	gray	Loose to medium	Silty SAND	Loose to medium dense, gray, mo grained, Silty SAND, with trace of					4.00	11/30	*			P-3	4.00			ш4 Шш4
5				* * * * * *		dense		GL- (9.00 ~ 9.45)m; very loose					5.00	7/30				P-4	5.00 5.45			<u>15</u>
6				<				fine grained, low plastic Clayey S observed as intercalated layer at th					6.00	8/30	4			P-5	6.00 6.45			<u>16</u>
4.100.000000000000000000000000000000000				<									7.00	17/30				P-6	7.00			17 1
8				* * * * * *									8.00	11/30				P-7	8.00 8.45			18 18
9				<									9.00	3/30				P-8	9.00 9.45			119 111
10				<									10.00	11/30	}			P-9	10.00 10.45			
11	-5.24	11.00	8.00	<	0101	Firms	Sandy	Firm to stiff, gray, moist, fine	grainad low				11.00	8/30	•			P-10	11.00 11.45			
12					gray	Firm to stiff	CLAY	plasticity, Sandy CLAY, with t mineral					12.00	12/30	\mathbf{b}			P-11	12.00 12.45			12
13	-7.24	13.00	2.00										13.00	14/30				P-12	<u>13.00</u> 13.45			13
14 15 16				<	gray	Medium dense	Silty SAND	Medium dense, gray, moist, fin	e to medium				14.00	13/30				P-13	<u>14.00</u> 14.45			14
15				<		dense	SAND	grained, Silty SAND					15.00	20/30	$\left \right\rangle$			P-14	<u>14.45</u> <u>15.00</u> 15.45			15
1 <u>6</u>				¢ x x				GL- $(20.00 \sim 20.45)$ m; me brownish gray, fine to medium gr					16.00	14/30				P-15	16.00			10
				< x x				layer is observed at that depth					17.00	16/30				P-16	16.45 17.00			1
1 <u>8</u>				* * * * * *				GL- $(22.00 \sim 24.45)$ m; thin observed as intercalated layer at the					18.00	19/30				P-17	17.45 18.00			1
1 <u>9</u>				«									19.00	25/30	\parallel \rangle			P-18	18.45 19.00			19
20				* * * * * *									20.00					P-19	19.45 20.00			2(
21				*						17.08.16			21.00	20/30	Ĭ				20.45 21.00			2
22				<						21.00	1		22.00	17/30				P-20	21.45 22.00			
22				<										19/30				P-21	22.45 23.00			lun,
17 <u>1</u> 18 <u>1</u> 19 <u>1</u> 20 <u>1</u> 21 <u>1</u> 22 <u>1</u> 23 <u>1</u> 24 <u>1</u>				<									23.00	26/30		\mathbb{N}		P-22	23.45			
	10.24	25.00	10.00	*									24.00	30/30		1		P-23	24.00 24.45			124 1
+	-19.24	25.00	12.00										25.00	19/30				P-24	25.00 25.45			125 1
26					brownish yellow	Medium dense	Clayey SAND	Medium dense to dense, brownis yellowish brownn, moist, fine	to medium				26.00	25/30	k			P-25	26.00 26.45			E20
2 <u>7</u>					and yellowish brown	to dense		grained, low plastic Clayey SAN of fine gravel	D, with trace				27.00	25/30		<u>ا</u> ا		P-26	27.00 27.45			27
2 <u>8</u>					010 WII								28.00	30/30		•		P-27	28.00 28.45			128 1
2 <u>9</u>													29.00	30/30		\mathbf{k}		P-28	29.00 29.45			E29
2 <u>6</u> 2 <u>7</u> 2 <u>8</u> 2 <u>9</u> 3 <u>0</u>													30.00	21/30	K			P-29	30.00 30.45			
31	NOT	ES						Continue to next sheet Sample key		<u>Pl</u>	anner stru	icture	31.00		Discor	tinuities						31
		lative den /e density		N-Value	Consis Consistenc	tency descrip	N-Value	Undisturbed Sample VS Vane Si	bility Test hear Test	Term Very thicl			2000		Term widely space		Spacing (mr > 2000			-UKKE Consultir Yangon	ng Eng i r	neers
	Ver	y loose oose		(meas) 0 - 4 4 - 10	Very soft	. ı	(meas) inder 2 2 - 4	D-1 Undisturbed Sample (Denison sampler)	emeter Test	Thick Medium Thin	+	600 - 200 - 60 -	- 600	Med	lely spaced lium spaced sely spaced		600 - 200 200 - 600 60 - 200			"el : 951 - 80 vww.myanmi	10896, 959 - มาgeoconรมศั	- 420089762 Yant.com
	Media D	um dense ense	1	0 - 30 0 - 50	Firm Stiff		5 - 8 9 - 15	Rock core sample (Single core tube) Rock core sample (Double core tube) 25 - 50	Very poor Poor	Very this nickly lami	nated	20 - 6 -	60 20	Very o	closely space ly closely sp		20 - 60	٦Ŀ	Revision N Revision D		Rev: 1 19.09	
	Ver	y dense	c	wer 50	Very stift Hard		6 - 30 over 30	Course core sample (Core Loss) 50 - 73 W-1 Water sample 75 - 90 W-1 Water sample 90 - 10) Good	hinly lamir	nated	< (6	Remarks								Ī
								90 - 1	Excellent													

в	DRE H	OLE N	o. B E	I-08				<u>B C</u>	RING	LOG	1 T						Job N		KYB-20 eet No.	-	5 OF 2
								Bago River Bridge Construction Project	BORING EQU				IO "D1"		-	DATE	: 15	.08.2016		-	
)N) LEVEL		nlyin Chin k m	Kat Road, T	Thaketa To	wnship.		BORING MET			: <u>Rota</u> : Vert		t Circulation	- CLIENT	<u>-</u>					
					N 1859695.	127 DI	EPTH :_	50.00m	GROUND WA						_	NIPI	PON KC	DEI CO)., LT	D.	
						Δ×					m) &	_			ENETRATION THOD (ASTM			SAM	IPLING		
	(m) N	(II) -	S (m)			RELATIVE DENSITY (or) CONSISTENCY	ш	SOIL DESCRIPTION		DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	- (m)	(m	CURVE OF BL	ow 🛛	E Vo.)	(u) -			
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	CONS)	L NAME			TE & DI	SING (I	TER DI	DEPTH GL - (m)	(Blows / 30cm)	N-Valu (Blows / 30	e)cm)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	ELF	DEF	THI	DIA	CO	REI (oi	SOIL			DA	CAS	ΜA	DEI	B 0	0 20 30	40 50		DEP	TCF	SCF	RQ SC/
3 <u>1</u> 32 33 34 35					brownish	Medium	Clayey	Medium dense to dense, brownis	h yellow and				31.00	29/30			P-30	31.00			31
32					yellow and	dense to	SAND	yellowish brownn, moist, fine grained, low plastic Clayey SAN					32.00	23/30			P-31	31.45 32.00			32
33					yellowish brown	dense		of fine gravel					33.00		\square		P-32	32.45 33.00			33
34																		33.45 34.00			
- -													34.00		۴ (P-33	34.45			- Internet
													35.00	25/30			P-34	35.00 35.45			1 35
36	-30.24	36.00	11.00										36.00	50/15			P-35	36.00 36.30			<u>13</u> 6
$\begin{array}{c} 33 \\ 33 \\ 39 \\ 40 \\ 41 \\ 42 \\ 41 \\ 42 \\ 43 \\ 44 \\ 44 \\ 44 \\ 45 \\ 41 \\ 41 \\ 41 \\ 41$					gray	Hard	CLAY	Hard, gray, moist, low to medi	um plasticity,	18.08.16 37.00			37.00	50/30		•	P-36	<u>37.00</u> 37.45	$\left \right $		37
38								CLAY with silt	,				38.00	48/30			P-37	38.00			11138
39								Thinly fine grained sand layer is this layer	s including in				 39.00	50/20			P-38	38.45 39.00			39
40													40.00	50/15				39.35 40.00 40.30			E 40
41													41.00			ľ			1 1		
														50/15				41.00 41.30			40 41 41 42 43 43 44 44 44 44 5
42													42.00	50/13		•		42.00 42.28	I I		142 111
4 <u>3</u>													43.00	50/15		•	P-42	43.00 43.30			43
44													44.00	50/10		•	P-43	44.00			4 4
45													45.00	50/10			P-44	44.25 45.00			45
46													46.00	50/8			P-45	45.25 46.00			40
													47.00	50/8			P-46	46.23 47.00			47
48													48.00			I		47.23 48.00			
40													49.00	50/9		ľ	P-47	48.24			
47 48 49 50														50/16		•	P-48	49.00 49.31			147 1111148 1111148 1111149 1111149
50	-44.51	50.27	14.27							19.08.16 50.00			50.00	50/12		•	P-49	50.00 50.27			
51								This borehole is terminated according to the termination criteri					51.00								<u>5</u> 1
52													52.00								52
53													53.00								53
54													54.00								54
55													55.00								155
56													56.00								1 1 1 5 6
57													57.00								1150 1157
													58.00								ili ili ili ili ili ili ili ili ili ili
59													59.00								159 11
51 52 53 54 55 56 57 58 59 60 0100 000 000 000 000 000 000 000 000													60.00								159 111160
61	NOT	ES						Sample key		Pla	nner stru	icture	61.00		Discontinuiti	ies					E 61
	Re	lative dens	-	ription N-Value		tency descrip	tion N-Value	P-1 Disturbed sample (SPT sample) PBT Permeat		Term Very thick		Spacing	(mm) 2000	Very wi	erm dely spaced	Spacing	(mm) 000		FUKKE Consulti	ng Eng i	neers
	Ver	ve density y loose		(meas) 0 - 4	Consistenc Very soft	, 1	(meas) inder 2	D-1 (Piston sampler) D-1 (Danison sampler) D-1 (Danison sampler)	meter Test	Thick Medium		600 - 200 -	600	Mediu	y spaced m spaced	600 - 2 200 -	600	rG=X	(Yangon	Branch) 420089762
	Medi	oose um dense	1	4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Rock core sample (Single core tube) 0 - 25	Very poor	Thin Very thin		60 - 20 -	60	Very clo	y spaced sely spaced	60 - 2	50	Revision N Revision L		Rev:	02
		9ense y dense	-	0 - 50 ver 50	Stiff Very stiff Hard	1	9 - 15 6 - 30 over 30	Rock core sample (Double core tube) 25 - 50 Rock core sample (Core Loss) 50 - 75	Fair T	nickly lamin hinly lamin		6 - < 0		Extremely Remarks	closely spaced	< 2		cevision L	nuc	19.05	.2010
				L	nard		,vei 50		0 Excellent												

вс	ORE H	OLE N	o. BI	1-09				<u>B O</u>	RING	L O C	Ĭ							Job N		KYB-20 ret No.	-	5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	vey on the s	supplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMEN	Γ	: <u>TO</u>	HO "D1"			1	DATE	: 16	5.08.2016		-	
	CATIC			nlyin Chin l	Kat Road, 7	Thaketa To	wnship.		BORING ME					ct Circul	ation	<u>CLIENT</u>	-					
		LEVEL			N 1859651	.489DI	EPTH :_	50.00m	ORIENTATIO		VEL	: <u>Ver</u> : <u>3.5</u>					NIPP	ON KC	DEI CO)., LT	D.	
							-				1					TRATION '			SAM	PLING		Т
	(II)	(ii	(E)			RELATIVE DENSITY (or) CONSISTENCY				DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	Û			EVE OF BLO		2	Û			_
E (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	DUR	TIVE	NAME	SOIL DESCRIPTION		& DEF	NG (DE AMETE	ER DEP	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Value		SAMPLE (Type & No.)	DEPTH GL - (m)	(%	(%)	(%)
SCALE (m)	ELEV	DEPT	THIC	DIAG	COLOUR	REL/ (or)	SOIL			DATI	CASI	WAT	DEPT	N. (Blow	0 10	(Blows / 30 20 30		S, (Ty	DEPT	TCR (%)	SCR (%)	RQD (%)
					brown	Soft	Sandy CLAY	Soft, brown, moist, fine grained, log plasticity, Sandy CLAY	w to medium				1.00						1.00			
=	3.66	2.00	2.00				0.0011	(Filled Soil)			2.00		2.00					A-1	1.50 2.00			
2	5.00	2.00	2.00		brown	Firm	CLAY	Firm, brown, moist, medium to hi	ah plasticity		Ø112		-					A-2	2.50			
3					biown		CLAI	CLAY	gii plastienty,			~	3.00	5/30	٩			P-1	3.00 3.45			
4	1.16	4.50	2.50										4.00					U D T-1	$\frac{4.00}{\binom{30}{80}}$ cm			
5				×××									5.00	8/30	Ą			∎w-1 P-2	4.30 5.00 5.45			
6				× × × × × ×	gray	Loose to medium	Silty SAND	Loose to medium dense, gray, moi grained, Silty SAND with clay pate					6.00	12/30				P-3	6.00			uluulu
7				x x x x x x		dense		GL- (8.00 ~ 8.45)m; firm, gray, low plasticity, Sandy CLAY laye		16.08.16 7.00			7.00	16/30				P-4	6.45 7.00			
8				* * * * * *				as intercalated layer at that depth		7.00			8.00	5/30	X			P-5	7.45 8.00			
31-41-41-41-41-41-41-41-41-41-41-41-41-41				× × × × × ×									9.00	•	\mathbf{M}				8.45 9.00			
101				×××									10.00	8/30	٢			P-6	9.45 10.00			- Lundar
10				× × ×									-	11/50	Ì			P-7	10.45			
-	-5.34	11.00	6.50	× × ×	gray	Stiff	Sandy	Stiff, gray, moist, fine grained, h	ow plasticity.	-			11.00	10/30	•			P-8	11.00 11.45			
12					B)	Suit	CLAY	Sandy CLAY, with trace of mica n					12.00	9/30				P-9	12.00 12.45			
13	-7.34	13.00	2.00	× × ×						-			13.00	18/30		\		P-10	13.00 13.45			
14				× × × × × ×	gray	Medium dense	Silty SAND	Medium dense, gray, moist, fine grained, Silty SAND, with trace of					14.00	16/30	9			P-11	14.00			
15				× × ×									- 15.00	12/30				P-12	14.45 15.00			
=	-10.34	16.00	3.00	× × × × × ×									- 16.00			N		P-13	15.45 16.00			
175				× × ×									17.00	•		Ιľ			16.45 17.00			
17 18 19 20 22 23 24 25 10 20 23 24 25 10 20 21 22 23 24 25 10 25 10 25 10 10 10 10 10 10 10 10 10 10				× × × × × ×	gray	Medium dense to	Silty SAND	Medium dense to dense, gray, n medium grained, Silty SAND	noist, fine to					20/30				P-14	17.45			
				* * *		dense		GL- (19.00 ~ 19.45)m; dense,	grav fine to				18.00	15/30	6			P-15	18.00 18.45			
191				* * * * * *				medium grained, SAND layer is that depth					19.00	33/30		1		P-16	19.00 19.45			
20				× × × × × ×									20.00	32/30				P-17	20.00 20.45			
21				× × × × × ×				GL- $(22.00 \sim 24.45)$ m; thin c observed as intercalated layer at the					21.00	25/30				P-18	21.00 21.45			
22				× × × × × ×									22.00	14/30	¢	1		P-19	22.00 22.45			
2 <u>3</u>				× × ×									23.00	17/30				P-20	23.00			
24				× × × × × ×									- 24.00					P-21	23.45 24.00			
25				× × × × × ×									25.00	•		\mathbf{X}			24.45 25.00			
	20.24	26.00	10.00	× × × × × ×									-	20/30				P-22	25.45			
-	-20.34	26.00	10.00				C:			1			26.00	14/50	Í			P-23	26.00 26.45			
27					yellowish brown	Loose to medium	Clayey SAND	Loose to medium dense, yello moist, fine to medium grained, Clayer SAND with trace of fine g	low plastic				27.00	10/30	K			P-24	27.00 27.45			
28						dense		Clayey SAND, with trace of fine g					28.00	13/30				P-25	28.00 28.45			in the
29													29.00	19/30				P-26	29.00 29.45			lundu.
2 <u>7</u> 2 <u>8</u> 2 <u>9</u> 30													30.00	14/30		1		P-27	30.00			
31	Nor	E.C.						Continue to next sheet					- 31.00						30.45			
	<u>NOT</u> Re	ES lative den	-	-	Consis	tency descrip		Sample key P-1 Disturbed sample (SPT sample) PBT Permeab		Term Very thicl		Spacin	g (mm) • 2000		<u>I</u> Term ry widely		Spacing (i > 20					
		ve density y loose		N-Value (meas) 0 - 4	Consistend Very soft	.,	I N-Value (meas)	B D I Ondisturbed Sample	ear Test meter Test	Thick Medium		600 - 200	2000		Widely sp Medium sj	aced	> 20 600 - 20 200 - 6	200		Consulti Yangon	Branch	h) 9 - 42008976
	L	oose um dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Control (Denison sampler) Rock core sample (Single core tube) Rock core sample (Single core tube)		Thin Very thi	1	60 - 20 -	200		Closely sp ry closely	aced	60 - 20 20 - 6	00	FUKKEN [®] Revision N	o.	Rev:	02
		ense y dense	_	0 - 50 over 50	Stiff Very stiff	f 1	9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 Rock core sample 50 - 75	Fair	hickly lami hinly lamir		6 - <		Extr Rema		ely spaced	< 20		Revision D	ate	19.09	9.2016
				L	Hard		over 30	Core Loss) 75 - 90 w₁ Water sample 90 - 10														

BC	RE H	OLE N	0. B I	1-09				<u>B</u> () R I N G	L O G	Ì							Job N		KYB-20 eet No.		5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMENT		: <u>TO</u> F	10 "D1"		_	DA	ГЕ	: 16	.08.2016			
	CATIC		_	nlyin Chin K	Kat Road, T	Thaketa To	wnship.		BORING ME					t Circulation	- <u>[CLI</u>	ENT						
		LEVEI)4264.719 ; 1	N 1859651	489 DI	ртн -	50.00m	ORIENTATIO GROUND W.			: <u>Vert</u>			-	1	VIPPO	ON KO	DEI CC)., LT	D.	
	, on Di	UTIL	. <u></u>	,1204.713 ,1	1009001				GROUND III					STANDARD F TEST ME	ENETRAT		Г		SAM	IPLING		
	(m)	(u)	(II)			RELATIVE DENSITY (or) CONSISTENCY				DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	(II)		CURVE O		•	(;;	(i)			
(E (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	DUR	CONSIS	NAME	SOIL DESCRIPTION		S& DEI	NG (DI	ER DEF	DEPTH GL - (m)	(Blows / 30cm)	N	Value		SAMPLE (Type & No.)	DEPTH GL - (m)	(%)	(%)	(%) E (m)
SCALE (m)	ELEV	DEPT	THIC		COLOUR	RELA (or)	SOIL			DATE	CASI	WAT	DEPT	(Blow N	(Blow 10 20	rs / 30cm) 30 40		S/ (Ty	DEPTI	TCR (%)	SCR (%)	RQD (%) SCALE (m)
3 <u>1</u> 3 <u>2</u> 3 <u>3</u> 3 <u>4</u>					yellowish	Loose	Clayey	Loose to medium dense, yello						20/30	I N			P-28	31.00			31
22					brown	to medium	SAND	moist, fine to medium grained Clayey SAND, with trace of fine g		17.08.16			32.00		Ĭ				31.45 32.00			1
52						dense				32.00	1			18/30	1				32.45			
33													33.00	15/30	•			P-30	33.00 33.45			<u>=3</u> 3
34													34.00	16/30				P-31	34.00 34.45			<u></u> 34
35	29.34	35.00	9.00										35.00	50/29		$\uparrow \uparrow$		P-32	35.00			35
36 37 38					yellowish	Very	Clayey	Very dense, yellowish brown, 1					36.00			H		P-33	35.44 36.00			∎ 3€
27					brown	dense	SAND	medium grained, low plastic C with fine gravel	layey SAND					18/30		\mathbb{H}			36.45			E.
													37.00	50/29			•	P-34	37.00 37.44			
38													38.00	50/14				P-35	38.00 38.29			<u>E3</u> 8
	-33.34	39.00	4.00							-			39.00	33/30				P-36	<u>39.00</u> 39.45			E 39
40					gray	Hard	CLAY	Hard, gray, moist, low to medi	um plasticity.				40.00	50/24				P-37	40.00			
40414243444444444444					G			CLAY with silt					41.00	50/17					40.39 41.00 41.32			E 41
42								Thinly fine grained sand layer is this layer	including in								ľ					
42													42.00	50/13			•	P-39	42.00 42.28			
4 <u>3</u>													43.00	50/15			•	P-40	43.00 43.30			<u>4</u> 3
44													44.00	50/14			•	P-41	44.00			44
4 <u>5</u>										18.08.16 45.00			45.00	50/14				P-42	45.00			45
46										45.00			46.00	50/16								≣ 4€
																	ľ		46.00 46.31			E.
4 <u>/</u>													47.00	50/14			•	P-44	47.00 47.29			
4 <u>7</u> 48													48.00	50/17			•	P-45	48.00 48.32			E48
	43.34	49.00	10.00		01011	Vom	Clauau	Voru donco area moiot fino	to modium	-			49.00	50/14			•	P-46	49.00 49.29			E 49
50	44.58	50.24	1.24		gray	Very dense	Clayey SAND	Very dense, gray, moist, fine grained, low plastic Clayey SAND		19.08.16 50.00			50.00	50/9				P-47	50.00			447 448 449 449 450 50
								This borehole is terminated	at 50.00m,	50.00			51.00						50.24			51
52								according to the termination criter					52.00									
																						1 min
53													53.00									E <u>5</u> 3
54													54.00									54
55													55.00									55
5 <u>6</u>													 56.00									56
57													 57.00									E57
																						Ĩ.
28													58.00									128 128
59													59.00									<u>15</u> 9
51 52 53 54 55 56 57 58 59 60 61 61													60.00									159 11160 1161
61													 61.00									61
	NOT Re	ES lative den	_		Consis	tency descrip			bility Test	Pla Term Very thick		Spacing			Discont Ferm idely spaced	SI	pacing (mr			FUKKE		
		ve density y loose		N-Value (meas) 0 - 4	Consistenc Very soft	,	N-Value (meas) under 2	PMT Pressur	near Test	Very thick Thick Medium		> 600 - 200 -		Wide	idely spaced ly spaced im spaced	(> 2000 500 - 200 200 - 600	0	rG=X	Consulti (Yangon ™: 951 - 80	Branch 10896, 959	1) - 420089762
	L	v loose .oose um dense		0 - 4 4 - 10 0 - 30	Soft Firm		111der 2 2 - 4 5 - 8	D-1 (Denison sampler) RQD (% (Single core tube) 0 - 25		Thin Very thir		200 - 60 - 20 -	200	Close	ly spaced sely spaced		60 - 200 20 - 60		PUKKEN Revision N		argeoconsu Rev:	in a second
	E	um dense Dense v dense	3	0 - 30 0 - 50 wer 50	Stiff Very stiff		5 - 8 9 - 15 6 - 30	Rock core sample (Double core tube) 25 - 50 50 - 7;	Poor T	hickly lamin hinly lamin	nated	20 - 6 - < 0	20	Extremely	closely spaced		< 20 - 60		Revision E	Date	19.09	9.2016
'	• 01	,			Hard		over 30	(Core Loss) 75 - 90		, amin		~ (Remarks								
<u> </u>								- · · · · · · · · · · · · · · · · · · ·						L								

вс	RE H	OLE N	0. B F	I-10				<u>B O</u>	RING	L 0 (<u>,</u>							Job N	_	KYB-20 eet No.	-	5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	/ey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMEN	Г	: <u>TO</u>	HO "D1"				DATE	: 15	.08.2016			
LC	CATIC	N	: <u>Tha</u>	nlyin Chin l	Kat Road, 7	Thaketa To	ownship.		BORING ME	THOD		: <u>Rot</u>	ary Direc	et Circula	ation	CLIENT	<u>r</u>					
	OUND	LEVEL			N 1950612	551 DI	EPTH :	50.00	ORIENTATIO		VEL	: <u>Ver</u>					NIPF	PON KO	DEI CO	., LT	D.	
	OKDIN		: <u>E20</u>	4261.084 ;	N 1859612.	<u>.551</u> Di	-	50.00m	GROUND W.		-	: <u>3.3</u>		STANDA	RD PENI	ETRATION	TEST		SAM	PLING		
	Û.	2	Ê			RELATIVE DENSITY (or) CONSISTENCY				(iii) H	CASING (DEPTH (m) & DIAMETER (mm))	(m) H.				DD (ASTM						_
(II)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	τam	¥,	UNE DI	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	G (DEI METER	WATER DEPTH (m)	DEPTH GL - (m)	/alue / 30cm)		N-Valu		SAMPLE (Type & No.)	DEPTH GL - (m)	0	0	(m)
SCALE	ELEV/	DEPTH	THICK	DIAGRAM	COLOUR	RELA' (or) C	SOIL			DATE	CASIN	WATE	DEPTH	N-Value (Blows/30cm)	0 10	(Blows / 30 20 30		SA (Typ	DEPTH	TCR (%)	SCR (%)	RQD (%) SCALE (m)
					brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY	ium to high	15.08.16	5		1.00					A-1	1.00			1
2	2.97	2.00	2.00					(Filled Soil)		1.00	2.00		2.00						1.50 2.00			1 ,
1 1					brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY	ium to high		Ø112			4/30	1			P-1	2.45			lun,
3	1.97	3.00	1.00	× × >		-				1		¥	3.00		Ň			U T-1	3.00 $\frac{(50)}{(30)}$ cm 3.60			1 1 1
4				× × × × ×	gray	Loose	Silty SAND	Loose, gray, moist to wet, fine g SAND, with trace of mica mineral	grained, Silty			ľ	4.00	8/30	þ			P-2 ∎w-1	4.00 4.45			4
5				× × × ×									5.00	8/30	•			P-3	5.00 5.45			5
6				× × : × × :									6.00	9/30				P-4	6.00 6.45			6
17				× × >									7.00	8/30	•			P-5	7.00			7
8				× × × ×									8.00	11/30				P-6	8.00			1
				× × × × × ×									9.00	11/30				P-7	8.45 9.00			1 19
10	-5.03	10.00	7.00	× × × × ×									10.00		I			P-8	9.45 10.00			
11					gray	Stiff	Sandy	Stiff, gray, moist, fine grained, le						14/30	/				10.45			
1 3							CLAY	Sandy CLAY, with trace of mica n	nineral				11.00	9/30	N			P-9	11.00 11.45			
1 - 1	-7.03	12.00	2.00	× ×)		T	011			-			12.00	15/30				P-10	12.00 12.45			<u>1</u> 2
1 <u>3</u>				× ×) × ×)	gray	Loose to medium	Silty SAND	Loose to medium dense, gray, grained, Silty SAND, with trace of					13.00	10/30	┥			P-11	13.00 13.45			13
1 <u>3</u> 14				× × > × × >		dense							14.00	14/30	k			P-12	14.00 14.45			<u>1</u> 4
15	-10.03	15.00	3.00	. × . × .)						-			15.00	20/30				P-13	15.00 15.45			15
16				× × × × × ×	arou	Madium	Siler	Medium dense to dense, gray, n	poist fine to				16.00	29/30				P-14	16.00			16
				× × × × × ×	gray	Medium dense to	Silty SAND	medium grained, Silty SAND	ioisi, inic io				17.00	25/30				P-15	16.45 17.00			17
18				* * * * * *		dense		GL- (21.00 ~ 22.45)m; Loose, find	e to medium				18.00			I		P-16	17.45 18.00			18
19				×××				grained, low plastic Clayey SA observed as intercalated layer at the						17/50		\			18.45 19.00			
				× × × × × ×				CI (25.00 25.25)	1 1 i				19.00			1		P-17	19.45			in the second seco
20				× × × × × ×				GL- $(25.00 \sim 25.25)$ m; thin c observed as intercalated layer at the					20.00	23/30				P-18	20.00 20.45			120
2 <u>1</u>				× × × × × ×									21.00	10/30	Ý			P-19	21.00 21.45			<u>2</u> 1
2 <u>2</u>				× × ×									22.00	10/30	٩			P-20	22.00 22.45			22
2 <u>3</u>				* * *									23.00	34/30				P-21	23.00 23.45			23
17 <u>-</u> 18 <u>-</u> 19 <u>-</u> 20 <u>-</u> 21 <u>-</u> 2 <u>3</u> 2 <u>4</u> 				* * * * * *									24.00	32/30				P-22	24.00			24
25				× × × × × ×									25.00					P-23	24.45 25.00			25
26	21.03	26.00	11.00	× × × × × ×						16.08.16	5		26.00					P-24	25.45 26.00			26
27	_		_		yellowish	Medium	Clayey	Medium dense to very dense, yell	owish brown,	26.00			27.00	23/30		T.			26.45 27.00			101
					brown	dense to	SAND	moist, fine to medium grained, Clayey SAND, with trace of fine gr	low plastic					25/30				P-25	27.45			ľ,
20						very dense								25/50		•		P-26	28.00 28.45			128 128
29													29.00	28/30		N N		P-27	29.00 29.45			E29
2 <u>7</u> 2 <u>8</u> 2 <u>9</u> 3 <u>0</u>													30.00	34/30				P-28	30.00 30.45			118 119 119 110 110 110 110 110 110 110 110
31	NOT	ES						Continue to next sheet Sample key	=	<u></u>	anner stru		31.00			Discontinuit		 				<u> </u>
		lative dens ve density		N-Value	Consis	tency descrip	N-Value	P-1 Disturbed sample (SPT sample) PBT Permeab T-1 (Disturbed Sample VS Vane Sh	· 11	Term Very thicl			2000		Tern ry widely	spaced	Spacing (000			ng Eng i	neers
	Ver	y loose	_	(meas) 0 - 4 4 - 10	Very soft		(meas) under 2 2 - 4	PMT Pressure D-1 Undisturbed Sample D-1 (Denison sampler) ROD (%)	meter Test	Thick Medium Thin		600 - 200 - 60 -	- 600	1	Widely sp Medium s Closely sp	paced	600 - 2 200	600	FGEX (Yangon w: 951 - 80 ww.myanma	Branch 10896, 959 Irgeoconsul	420089762
	Mediu	oose im dense ense	1	4 - 10 0 - 30 0 - 50	Soft Firm Stiff		2 - 4 5 - 8 9 - 15	Rock core sample (Single core tube) 0 - 25 Rock core sample 25 - 50	Very poor	Thin Very thi hickly lami		60 - 20 - 6 -	- 60	Ve	ry closely		60 - 2 20 - 0 < 2	50	Revision N Revision D		Rev: 19.09	02 0.2016
		/ dense	_	ver 50	Very stiff Hard	· 1	6 - 30 over 30	(Double core tube) Rock core sample (Core Loss) (Double core tube) 50 - 75 75 - 90	Fair T Good	'hinly lamir		<		Rema						!		=
								w -1 Water sample 90 - 100	0 Excellent													

вс	RE H	OLE N	o. BE	I-10				<u>B C</u>	RING	L O G	Ì						Job N		KYB-201 eet No.	6-015 2 O	F 2
PR	.0JECT	NAME	: <u>Geo</u>	logical Surv	vey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMENT	[: <u>TO</u> F	10 "D1"		_ 1	DATE	: 15	.08.2016			_
	CATIO			nlyin Chin I					BORING ME	THOD		: <u>Rota</u>	ary Direc	t Circulation	- - <u>Client</u>						
		LEVEL	_						ORIENTATIO			: <u>Vert</u>			-		ON KO	EI CO)., LTI	<i>).</i>	
	ORDIN	IATE	: <u>E 20</u>	94261.084 ;	N 1859612.	<u>551</u> Di	EPTH : _	50.00m	GROUND W.	ATER LE	-	: 3.50		STANDARD PI	-	FEST			PLING		Т
	(E)	(ii	(II)			ENSITY TENCY				(m) HT	CASING (DEPTH (m) & DIAMETER (mm))	TH (m)		TEST MET	HOD (ASTM)				LING		
.E (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	JUR	RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	NG (DE AMETEF	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	N-Value	,	SAMPLE (Type & No.)	DEPTH GL - (m)	(%)	(%)	.E (m)
SCALE (m)	ELEV	DEPT	THIC	DIAC	COLOUR	REL/ (or)	TIOS			DATI	CASI	WAT	DEPT	I 0 (Blow N	(Blows / 30) 0 20 30		D, s.	DEPT	TCR (%)	SCR (%) ROD (%)	SCALE (m)
31 32 33 33 34 35 36 37					yellowish	Medium	Clayey	Medium dense to very dense, yell	owish brown.				31.00	27/30			P-29	31.00			1 1
32					brown	dense to	SAND	moist, fine to medium grained, Clayey SAND, with trace of fine g	low plastic				32.00	29/30	ΙI		P-30	31.45 32.00			32
33						very dense							33.00					32.45 33.00			
														50/25			P-31	33.40			2
34													34.00	47/30			P-32	34.00 34.45			<u>E3</u> 4
35													35.00	27/30	$ \langle$		P-33	35.00 35.45			<u>13</u> 5
36													36.00	46/30			P-34	36.00			36
37													37.00	35/30		$X \parallel$	P-35	36.45 37.00			37
1 3	-33.03	38.00	12.00										38.00					37.45 38.00			E 38
1 3		-			voll' I	Va	Class	Vary dance vollowisk know	agist fine to	1				50/20			P-36	38.35			Lun (
22					yellowish brown	Very dense	Clayey SAND	Very dense, yellowish brown, n medium grained, low plastic C with fine gravel					39.00	50/28		•	P-37	39.00 39.43			L S
40								with the graver					40.00	50/2		•	P-38	40.00 40.17			<u>4</u> 0
39 40 4 <u>1</u>										17.08.16 41.00			41.00	50/2		•	P-39	41.00 41.17			40
42	-37.03	42.00	4.00							ł			42.00	50/13			P-40	41.17 42.00			42
4 <u>3</u>					gray	Hard	CLAY	Hard, gray, moist, low to media	um plasticity,				43.00	50/17			P-41	42.28 43.00			43
4 <u>3</u> 4 <u>4</u> 4 <u>5</u> 4 <u>6</u>								CLAY with silt	inch P - 1				44.00					43.32 44.00			
								Thinly fine grained sand layer is this layer	including in					50/13			P-42	44.28			
42													45.00	50/22			P-43	45.00 45.37			145 11
46													46.00	50/26		•	P-44	46.00 46.41			<u>4</u> 6
	42.03	47.00	5.00							-			47.00	50/5			P-45	47.00			1 47
4 <u>8</u>					bluish	Very dense	Clayey SAND	Very dense, bluish gray, moist, fin grained, low plastic Clayey SAND					48.00	50/20			P-46	47.20 48.00 48.35			48
4 <u>7 -</u> 4 <u>8</u> 4 <u>9</u>					gray	uciisc	JAIND	gramed, fow plastic Clayey SAND					49.00	50/15			P-47	49.00			49
	45 01	50.10	3 10							18.08.16			50.00					49.30 50.00			49 49 50 51
50 51 52 53 54 55 56 57 58 59 60 61	-45.21	50.18	3.18					This horshold is tampingted	at 50.00	50.00	1			50/3			P-48	50.00			Lunda,
2								This borehole is terminated according to the termination criteri					51.00								E ₂₁
52													52.00								E52
53													53.00								53
54													54.00								54
55													55.00								55
56													56.00								E
																					lum.
<u>ار</u>													57.00								137
58													58.00								<u>5</u> 8
59													59.00								<u>5</u> 9
60													60.00								1 160
61													 61.00								60 61
	NOTI Rel	E <u>S</u> lative den	sity desci	ription	Consis	tency descrip	otion	Sample key P-1 Disturbed sample (SPT sample) PBT Permeal	ility Test	Term		Spacing			Discontinuitie erm	Spacing (UKKEN		TD.
		e density		N-Value (meas)	Consistenc Very soft	,	N-Value (meas)	Undisturbed Sample VS Vane Sh (Piston sampler) PMT Pressure	mear Test	Very thick Thick Medium		600 -		Widel	ely spaced / spaced n spaced	> 20 600 - 20 200 - 0	000		Consulting Yangon E w: 951 - 8010	Branch) 896, 959 - 42	0089762
	L	y loose oose un dense		0 - 4 4 - 10 0 - 30	Very soft Soft Firm		inder 2 2 - 4 5 - 8	Conison sampler) Rock core sample		Medium Thin Very thir		200 - 60 - 20 -	200	Closel	y spaced wely spaced	200 - 0	00	Revision N	rww.myanman	Rev: 02	com
	D	ense / dense	3	0 - 50 ver 50	Stiff Very stiff		5 - 8 9 - 15 6 - 30	Rock core sample (Double core tube)	Poor T	hickly lamir hinly lamir	nated	20 - 6 - < 0	20	Extremely	closely spaced	20 - 6 < 20		Revision D	ate	19.09.2	916
'	. 619				Hard		over 30	(Core Loss) 75 - 90		,	-1		-	Remarks							
<u> </u>								· · · · · · · · · · · · · · · · · · ·						L							

вс	ORE H	OLE N	o. Bł	I-11				BO	RING	L O (Ĵ						Job		KYB-20 eet No.	-	5 OF 2
PF	ROJECT	NAME	: <u>Geo</u>	ological Surv	vey on the s	supplement	t survey for	Bago River Bridge Construction Project	BORING EQ	UIPMEN	Т	: <u>toi</u>	HO "D1"			DATE	:	16.08.2016			
LC	OCATIC	N	: <u>Tha</u>	nlyin Chin l	Kat Road, 7	Thaketa To	wnship.		BORING ME	THOD		: <u>Rot</u>	ary Dire	et Circula	ion <u>CL</u>	ENT					
		LEVEL			NI 1050550	120 DI	DTU	50.00	ORIENTATIO			: <u>Ver</u>				NI	PPON K	OEI CO)., LT	D.	
	JORDI	NATE	: <u>E 20</u>	04288.053;	1829228	. <u>128</u> DE	- ^{PIH}	50.00m	GROUND W	ATER LI	1	: <u>3.0</u>		STANDAR	D PENETRA	TION TEST					
	0		~			ISITY				(ii)	CASING (DEPTH (m) & DIAMETER (mm))	(II)		TEST	METHOD (A	STM)		SAM	IPLING		_
(u	ELEVATION (m)	(T - (m)	THICKNESS (m)	M		RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	(DEPT ETER (WATER DEPTH (m)	(T - (m)	N-Value (Blows / 30cm)		OF BLOW	SAMPLE (Type & No.)	(iii)			(e
SCALE (m)	LEVAT	DEPTH GL - (m)	HICKN	DIAGRAM	COLOUR	ELATI (or) CO	SOIL N/			ATE &	ASING	/ATER	DEPTH GL - (m)	N-Va Blows /	(Blov	-Value vs / 30cm)	SAM	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
S.	Е	Ω	T	Ω	0 brown	≃ ⊂ Soft	ZLAY	Soft, brown, moist, fine grained, h	ow plasticity		U	4	Ω	(10 20	30 40 .	50		Ę.	20 20	× ×
1					biown	5011	CLAI	CLAY (Filled Soil)	ow plasticity,				1.00				A-1				
2	3.70	1.50	1.50		brownish	Loose	Silty	Loose, brownish gray, moist, find	e to medium	1	2.00		2.00	7/30			P-1	1.50			12
- 3	2.20	3.00	1.50	× × × × × ×	gray	20000	SAND	grained, Silty SAND (Filled Soil)			Ø112		3.00		/			2.45			
3	2.20	5.00	1.50		brownish	Soft	CLAY	Soft, brownish gray to gray, mois	t medium to	1		¥	-	3/30	•		P-2	3.45			il min
4 5 6					gray to	5011	CLITI	high plasticity, CLAY	, meanin to				4.00				U D T	(80) 011			4
5					gray								5.00	2/30			P-3	4.70 5.00 5.45			5
6													6.00				Ц т	6.00			6
7	-1.80	7.00	4.00										7.00				Р-4	6.80			1
				× × × × × ×	gray	Loose	Silty	Loose to medium dense, gray, mois	st to wet, fine				-	5/30	1			7.45			لىسى ساس
8				× × × × × ×		to medium	SAND	grained, Silty SAND, with trace of					8.00	7/30			P-5	8.45			ىلىسىلە سىلى
9				×××		dense							9.00	15/30)		P-6	9.00 9.45			<u>19</u>
10	-4.80	10.00	3.00	×××						-			10.00	10/30	¥		P-7	10.00			
11				· × · × · × · × · × · ×	gray	Firm to	Sandy SILT	Firm to stiff, gray, moist, fine					- 11.00	7/30			P-8	11.00			1
12				× × × × × ×		stiff	SILT	plasticity, Sandy SILT, with tra- mineral	ace of mica				12.00		χI		P-9	11.45 12.00			
1	7.00	12.00	2.00	× × ×									-	12/30	٦.		P-9	12.45			Luni,
13	-7.80	13.00	3.00	× × ×						1			13.00	15/30	*		P-10	13.00 13.45			
14 15 16				× × ×	gray	Medium dense	Silty SAND	Medium dense to dense, gray, n medium grained, Silty SAND	noist, fine to				14.00	11/30	¥ I		P-1	1 14.00 14.45			
15				× × × × × ×		to dense							15.00	11/30			P-12	2 15.00			
16				× × × × × ×				GL- $(22.00 \sim 22.45)$ m; medium fine to medium grained, low pl	astic Clayey				- 16.00	18/30			P-13	15.45 3 16.00			1
-				× × ×				SAND layer is observed as interca that depth	lated layer at				17.00		$\parallel \lambda$			16.45			Ē
				× × × × × ×									-	23/30			P-14	17.45			
183				× × ×									18.00	37/30			P-1:	5 <u>18.00</u> <u>18.45</u>			
19				× × ×									19.00	19/30			P-1	5 <u>19.00</u> 19.45			1
20				× × × × × ×									20.00	24/30			P-1	7 20.00			2
2 <u>1</u>													21.00	17/30			P-1	20.45 21.00			2
22				×××									. 22.00					21.45			2
				× × × × × ×									-	30/30		N	P-19	22.45			لىسىل
<u>23</u>				× × × × × ×									23.00	40/30			P-20	23.00 23.45			
24				× × ×									24.00	22/30	۴		P-2	1 <u>24.00</u> 24.45			
177 187 197 197 207 197 207 207 207 207 207 207 207 20				× × ×									25.00	25/30			P-22	25.00			2
26				× × × × × ×									26.00	41/30		N	P-2.	3 26.00			2
27				× × × × × ×						16.08.10	6		27.00			\mathbb{X}		26.45			
				× × ×						27.00			-	19/30	N		P-24	27.45			
28				× × × × × ×									28.00	26/30			P-2:	5 <u>28.00</u> 28.45			=2
2 <u>9</u>				× × ×									29.00	17/30			P-20	5 <u>29.00</u> 29.45			2
30				× × ×									30.00	32/30			P-2	7 30.00			13
31				× × × × × ×				Continue to next sheet					31.00					30.45			3
	NOT Re	E <u>S</u> lative den	sity desc	ription	Consis	tency descrip	otion	Sample key P-1 Disturbed sample (SPT sample) PBT Permeab	ility Test	Term		Spacing	g (mm)		<u>Discor</u> Term	Space	ing (mm)		FUKKE	N CO.	, LTD.
		ve density		N-Value	Consisten	.,	N-Value (meas)	Undisturbed Sample VS Vane Sh (Piston sampler)	ear Test	Very thic Thick		600 -			y widely space /idely spaced	600	> 2000 - 2000		Consulti Yangon	ng Engi Branch	ineers h)
	L	y loose oose		0 - 4 4 - 10	Very soft Soft		inder 2 2 - 4	D-1 (Denison sampler) Rock core sample	Term	Medium Thin		200 60 -	200		edium spaced losely spaced	60	- 600 - 200	Revision N	awa.uyatun	10896, 959 argeoconsi Rev:	Marx.som
	D	um dense ense	3	0 - 30 30 - 50	Firm Stiff		5 - 8 9 - 15	(Single core tube) 0 - 25 Rock core sample (Double core tube) 25 - 50		Very the	inated	20 -	20		y closely space nely closely sp		0 - 60 < 20	Revision N			02 9.2016
	Ver	y dense	0	over 50	Very stift Hard		6 - 30 over 30	Core Loss)	Good	fhinly lami	inated	<	6	Remar	<u>.s</u>						
								w-i Water sample 90 - 10	0 Excellent												

BC	RE H	OLE N	o. BH	I-11				<u>B (</u>	DRING	LOG	Ē							Job N	_	KYB-20 ret No.		OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	vey on the s	upplemen	t survey for	Bago River Bridge Construction Project	BORING EQU	ЛРМENT	Г	: <u>TO</u> F	10 "D1"		_	DAT	Е	: 16	.08.2016		· · · · ·	
	CATIC				Kat Road, 7	Thaketa To	wnship.		BORING ME					et Circulation	- <u>CLIE</u>	<u>NT</u>						
	OUND	LEVEL			N 1850550	128 101	EPTH : _	50.00m	GROUND W		VFI	: <u>Vert</u>			-	Л	VIPPO	ON KO	EI CO	., LT	D.	
H			. <u>1. 20</u>		., 1007000.		····· · <u>-</u>		. GROUND WI		1	. <u></u>		STANDARD P TEST ME	– ENETRATIC THOD (AST		•		SAM	PLING		Τ
	Ē	î l	(II)			RELATIVE DENSITY (or) CONSISTENCY				(m) HT	CASING (DEPTH (m) & DIAMETER (mm))	TH (m)	î.		CURVE OF	, 	•	<u> </u>				\neg
(II)	ELEVATION (m)	(U) - (U)	THICKNESS (m)	tAM	R	IIVE D. ONSIS	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	G (DE METEF	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows/30cm)	N-V			SAMPLE (Type & No.)	DEPTH GL - (m)	<u>چ</u>	。	(m)
SCALE (m)	ELEV/	DEPTH GL	THICK	DIAGRAM	COLOUR	RELA7 (or) C	SOIL			DATE	CASIN	WATE	DEPTH	(Blows	(Blows)	/ 30cm)	50	SA (Typ	DEPTH	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	25.00	21.00	10.00	× × × ×	gray	Medium dense to	Silty SAND	Medium dense to dense, gray, medium grained, Silty SAND	moist, fine to							/						
	-25.80	31.00	18.00	·		dense				1			31.00	26/30				P-28	31.00 31.45			<u>13</u> 1
32					yellowish brown	Medium dense	Clayey SAND	Medium dense to dense, yello moist, fine to medium grained					32.00	26/30	•			P-29	32.00 32.45			<u>3</u> 2
33					010 WI	to dense	SILLE	Clayey SAND, with trace of fine g					33.00	29/30				P-30	33.00			33
34													34.00	36/30		\sum		P-31	33.45 34.00			<u></u> 34
32 3 <u>3</u> 3 <u>4</u> 3 <u>5</u>													35.00			Ĭ			34.45			1.15
														35/30				P-32	35.45			
	30.80	36.00	5.00										36.00	50/23			6	P-33	36.00 36.38			<u>E3</u> 6
3 <u>7</u> 3 <u>8</u>					yellowish brown	Very dense	Clayey SAND	Very dense, yellowish brown, n medium grained, low plastic C					37.00	50/20			•	P-34	37.00 37.35			37
38								with fine gravel					38.00	50/15				P-35	38.00 38.30			<u>138</u>
1 1	-33.80	39.00	3.00										39.00					P-36	39.00			E 39
1 7		-	-]			-			1/			39.45			The second secon
40 41 42 43 44 44 45 46					gray	Hard	CLAY	Hard, gray, moist, low to med CLAY with silt	ium plasticity,	17.08.16 40.00	1		40.00	36/30				P-37	40.00 40.45			E ⁴⁰
4 <u>1</u>								Thinly fine grained sand layer i	is including in				41.00	50/27			Y	P-38	41.00 41.42			41
42								this layer	is menuality in				42.00	50/15			•	P-39	42.00 42.30			42
4 <u>3</u>								GL- (46.00 ~ 46.28)m; very dens medium grained, low plastic (43.00	50/28				P-40	43.00			43
44								layer is observed as intercalated depth					44.00				Ĭ		43.43 44.00			E 44
								1						50/10			•	P-41	44.31			
45													45.00	50/15			•	P-42	45.00 45.30			45
46													46.00	50/13			•	P-43	46.00 46.28			46
4 <u>7</u>													47.00	50/15			•	P-44	47.00 47.30			47
1 3	-42.80	48.00	9.00											50/15					48.00 48.30			
					gray	Very	Clayey	Very dense, gray, moist, fine					49.00				Ĭ					
49						dense	SAND	grained, low plastic Clayey SAND)					30/13			•		49.28			447 48 48 49 50 51 51
50	45.05	50.25	2.25							18.08.16 50.00			50.00	50/10			•	P-47	50.00 50.25			<u>E5</u> 0
5 <u>1</u>								This borehole is terminated according to the termination criter					51.00						50.25			51
52													52.00									52
53													53.00									53
54													54.00									5.4
515255565556555655566661_6																						54 55 56 57 58 59 59 59
55													55.00									<u>5</u> 5
56													56.00									56
5 <u>7</u>													57.00									57
58													58.00									E 58
29													59.00									139 11
60													60.00									<u>6</u> 0
61	NOT	ES						Sample key		ple	anner stru	icture	61.00		Discontin	uities						61
		ative dens			Consis	tency descrip		P-1 Disturbed sample (SPT sample) PBT Permea	bility Test	Term Very thick		Spacing	g (mm) 2000		erm dely spaced	_	acing (mr > 2000			UKKEI		
		ve density y loose		N-Value (meas) 0 - 4	Consistence Very soft	,	N-Value (meas)	PMT Pressur	hear Test	Thick Medium		600 - 200 -	2000	Wide	ly spaced in spaced	_	00 - 200 200 - 600	0		Yangon	Branch)	
	L	oose um dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	D-1 (Denison sampler) Rock core sample (Single core tube) RQD (% 0 - 25		Thin Very thir	1	60 - 20 -	200	Close	ly spaced sely spaced		60 - 200 20 - 60	1	UKKEN ^w evision Ne	an,wanaa	geoconsulta Rev: 0	n.som
	D	ense / dense	3	0 - 50 ver 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube)	0 Poor T	hickly lamin hinly lamin	nated	6 -	20	Extremely	closely space	_	< 20	F	evision D	ate	19.09.2	2016
'					Hard		over 30	(Core Loss) 75 - 90						Remarks								
L														L								

вс	RE H	OLE N	o. BH	I-12				<u>B</u> C	RING	L O G	Ĩ							Job i		KYB-20 leet No.	-	5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplement	survey for	Bago River Bridge Construction Project	BORING EQ	JIPMEN	Г	: <u>to</u> ł	HO "D1"				DATE	: 13	2.08.2016			
	CATIO			nlyin Chin k	Kat Road, 1	Thaketa To	wnship.		BORING ME					et Circula	ution	CLIEN	<u>T</u>					
		LEVEL			NT 1070107	401 57	DTU	50.00	ORIENTATIO			: <u>Ver</u>				1	NIPF	ON KO	DEI CC)., LT	D.	
	UKDIN I	NATE	: <u>E 2</u> ()4312.961 ; 1	IN 1859485.	<u>491</u> DE	жин : <u>-</u>	50.00m	GROUND W.	ATEK LE	T	: <u>1.6</u>		STANDA		ETRATION	TEST					
						SITY 4CY				(II)	CASING (DEPTH (m) & DIAMETER (mm))	(II)				OD (ASTN			SAN	IPLING		
	ELEVATION (m)	(II) -	SS (m)			RELATIVE DENSITY (or) CONSISTENCY	Æ	SOIL DESCRIPTION		DATE & DEPTH (m)	DEPTH TER (n	WATER DEPTH (m)	(iii) -	e)cm)	CU	RVE OF BI	LOW O	No.)	(II)			
SCALE (m)	VATIO	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	(ATIV	L NAME			TE&I	SING (TER D	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Val (Blows / 3	ue 30cm)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
SC/	ELI	DEI	ΗT)IQ	CO	REI (o	TIOS			DA	CAL	νw	DEI	(Bl	0 10	20 30	40 50		DEF	TCI	SCI	SC/
1					brownish gray	Soft	CLAY	Soft, brownish gray, moist, mec plasticity, CLAY	lium to high				1.00					A-1	1.00			
					Bruj			(Filled Soil)										A-1	1.50			
2 3 4	2.37	2.00	2.00					(Filed Soli)		-	2.00 Ø112	¥	2.00					A-2	2.00			2
3					gray	Soft	CLAY	Soft, gray, moist, low to mediu CLAY	ım plasticity,				3.00	2/30	ę			P-1	3.00			3
4								OLAT					4.00		\setminus				3.45			4
1 3			• • • •												۸			D T-1	$\frac{\binom{80}{80}}{4.80}$ cm			
	-0.63	5.00	3.00							1			5.00	8/30)			P-2	5.00 5.45			
6					gray	Soft to	Sandy CLAY	Soft to firm, gray, moist, fine plasticity, Sandy CLAY, with the					6.00	4/30	«			P-3	6.00 6.45			6
611117						firm		mineral					7.00	7/30				P-4	7.00	1		7
1 1	-3.63	8.00	3.00										8.00						7.45			line of the second s
	5.05	5.00	5.00	× × × ×					•	1				15/30		?		P-5	8.45			ىسىلە
91 101 111				××	gray	Medium dense	Silty SAND	Medium dense to loose, gray, grained, Silty SAND, with trace of					9.00	18/30				P-6	9.00 9.45			19 11
10				× × × ×		to loose							10.00	7/30				P-7	10.00			10
11				xx										11/20	N			P-8	10.45			1
1 1				× × × ×										11/30	ľ			P-8	11.45			
	-7.63	12.00	4.00							12.08.16 12.00			12.00	6/30	¢			P-9	12.00 12.45			<u>= 1</u> 2
1 <u>3</u> 1 <u>4</u> 1 <u>5</u>					gray	Firm to	Sandy CLAY	Firm to soft, gray, moist, fine plasticity, Sandy CLAY, with the					13.00	4/30	4			P-10	13.00 13.45			13
14						soft		mineral					 14.00	4/30				P-11	13.45			<u>1</u> 4
														4/30	Ť				14.45			
1 4													15.00	4/30	٩			P-12	15.00 15.45			
16	-11.63	16.00	4.00							-			16.00	10/30	Y			P-13	16.00 16.45			16
17				× × × ×	gray	Loose	Silty	Loose to medium dense, gray,					17.00	7/30				P-14	17.00			17
18				× ×		to medium	SAND	grained, Silty SAND, with trace of					18.00		N				17.45			
17 18 19				× × × ×		denese		Clay percent is increased in some p	oortion					20/30		<u>/</u>		P-15	18.45			
19				× × × ×									19.00	11/30	K			P-16	<u>19.00</u> 19.45			<u>E 1</u> 9
20	-15.63	20.00	4.00							4			20.00	22/30				P-17	20.00			20
2 <u>1</u>				× × × ×	01P037	Madin	Silty	Medium dense to dense, gray, r	noist fine to				21.00	21/30				p_19	20.45 21.00			2!
				××	gray	Medium dense to	SAND	medium grained, Silty SAND		13.00						[N]			21.45			
				× × × ×		dense				13.08.16	Ϊ		22.00	28/30				P-19	22.00 22.45			
2 <u>3</u>				××									23.00	26/30		•		P-20	23.00			23
24				× × × ×									24.00	21/30				P-21	24.00			24
21 22 23 24 25 24 25 26 27 26 27 28				× × × ×									25.00					П	24.45			
				××										22/30				P-22	25.45			
2 <u>6</u>				× × × ×									26.00	31/30)		P-23	26.00 26.45			<u>E2</u> 6
2 <u>7</u>				* *									27.00	25/30				P-24	27.00			27
28				× × × ×									28.00	34/30		$ \rangle$		P-25	27.45 28.00			28
1 1	24 63	20.00	0.00	× ×												$\ X$			28.45	$\left \right $		
11	-24.03	29.00	9.00	··· X··X ···	arov.	Medium	Clayey	Medium dense to dense, gray, r	noist fine to	1			29.00	22/30		1		P-26	29.00 29.45			E ²⁵
3 <u>0</u> 31					gray	dense to	SAND	medium grained, low plastic Claye					30.00	19/30				P-27	<u>30.00</u> 30.45	$\left\{ \right\}$		<u>13</u> 0
31	NOT	FS				dense		Continue to next sheet Sample key				lutur-	31.00			Discont	tiee .			1		31
	NOTI Rel	E <u>S</u> lative den:	sity desci	ription	Consis	tency descrip	tion		pility Test	Term		Spacing			Tern		Spacing (FUKKE		
		ve density		N-Value (meas)	Consistenc	,	N-Value (meas)	T-1 Undisturbed Sample VS Vane Sh (Piston sampler) PMT Pressure		Very thicl Thick	ĸ	600 -			Widely s		> 20	000		Consulti (Yangon	Branch	n) I
	L	y loose oose		0 - 4 4 - 10	Very soft Soft		nder 2 2 - 4	D-1 (Denison sampler) RQD (% RQD (%) Term	Medium Thin		200 - 60 -	200		Aedium s Closely s	paced	200 - 0	00	Revision N	www.uryann	nargeoconsu Rev:	nancom
	D	um dense ense		0 - 30 0 - 50	Firm Stiff		5 - 8 9 - 15	(Single core tube) 0 - 25 Rock core sample (Double core tube) 25 - 50	Poor T	Very thii hickly lami	nated	20 -				y spaced sely spaced	20 - 6	0	Revision N Revision L			02 9.2016
	Very	y dense	0	over 50	Very stiff Hard		6 - 30 wer 30	Rock core sample (Core Loss) 50 - 75 75 - 90		`hinly lamir	nated	<	6	Remai	ks							
				L				w-1 Water sample 90 - 10														

в	RE H	OLE N	o. BI	I-12				BC	RING	L O G	2							Job N		KYB-20 eet No.	-	0F 2
PF	.OJECT	NAME	: <u>Geo</u>	logical Surv	yey on the s	upplement	t survey for	Bago River Bridge Construction Project	BORING EQU	ЛРМЕМТ		: <u>TOH</u>	10 "D1"			D	ATE	: 12	.08.2016			
LC	CATIO	N	: Tha	nlyin Chin k	Kat Road, T	haketa To	wnship.		BORING ME	THOD		: <u>Rota</u>	ary Direc	t Circulatic	<u>n</u> <u>c</u>	IENT						
		LEVEL			N1 1050405	401 DI	DTU	50.00	ORIENTATIC			: <u>Vert</u>			_		NIPF	PON KO	DEI CO)., LT	D.	
	ORDIN	AIE	: <u>E 20</u>)4312.961 ; 1	N 1859485.		^{.PTH} :_	50.00m	GROUND WA			: 1.60	-	STANDARD TEST M	PENETRA ETHOD (.	TION TE	ST		SAM	IPLING		Τ
	(m) N	(m)	S (III)			RELATIVE DENSITY (or) CONSISTENCY	ш	SOIL DESCRIPTION		DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	(m)		CURVE		N O	e (ioi	(m)			
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	COLOUR	LATIVE CONSI	IL NAME	SOL DESCRIPTION		TE & DE	SING (D	TER DE	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Value ws / 30cn	n)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
	EL	DE	HL	īd	CO	RE (c	SOIL			DA	5	W/	DE	<u>a</u> 0	10 20	30 4	10 50	Ŭ	DEI	TC	sc	_
3 <u>1</u>					gray to	Medium dense	Clayey SAND	Medium dense to dense, gray brown, moist, fine to medium					31.00	17/30	•			P-28	31.00 31.45			<u>3</u> 1
32					yellowish brown	to dense		plastic Clayey SAND	g,				32.00	22/30	•			P-29	32.00 32.45			32
33								GL- $(31.00 \sim 31.45)$ m; trace of org observed at that depth	ganic matter is				33.00	23/30		,		P-30	33.00 33.45			33
34								GL- $(34.00 \sim 34.45)$ m; Very s brown and gray, fine to medium g					34.00	20/30				P-31	34.00			34
35								medium plasticity, Sandy CLA observed as intercalated layer at th	AY layer is				35.00	32/30				P-32	34.45 35.00			35
36									-	15.08.16			36.00	36/30				P-33	35.45 36.00			<u>3</u> 6
37										36.00			37.00	30/30				P-34	36.45 37.00			37
38													38.00			Ĭ		P-35	37.45 38.00			38
31 32 33 34 34 35 36 37 37 38 39 39 39 39 39 40 40 41													39.00	33/30					38.45 39.00			34 35 36 37 37 38 39 40 40 41 41 41 42 41 41 41 41 41 41 41 41 41 41 41 41 41
10														30/30		Ň		P-36	<u>39.45</u> 40.00			
													40.00	33/30				P-37	40.45			
1 4													41.00	38/30				P-38	41.00 41.45			41
	-37.63	42.00	13.00										42.00	50/30				P-39	42.00 42.45			42
4 <u>3</u> 44 45					yellowish brown	Dense to	Clayey SAND	Dense to very dense, yellowish b moist, fine grained, low plastic Cla					43.00	50/30			•	P-40	43.00 43.45			43
44					to gray	very dense	511112	moist, fine graned, fow passie en	lycy blitte				44.00	50/30			•	P-41	44.00 44.45			44
4 <u>5</u>								GL- $(50.00 \sim 50.30)$ m; the grained is fine to medium grained.	d size of sand				45.00	50/23			•	P-42	45.00 45.38			44 45 46
46													46.00	50/21				P-43	46.00			46
47										16.08.16 47.00			47.00	50/20				P-44	47.00 47.35			47
4 <u>7</u> 4 <u>8</u>													 48.00	50/25				P-45	48.00			48
4 <u>9</u>													 49.00	50/23				P-46	48.40 49.00			49
49	45.02	50.20	8.30							17.08.16			50.00	50/15				P-47	49.38 50.00			447 48 49 50 51
	-45.93	50.50	8.30	••				This borehole is terminated	at 50.00m.	50.00			51.00						50.30			51
52								according to the termination criteri	,				52.00									52
53													53.00									53
5.4													54.00									
51 52 53 54 55 56 57 58 59 60 00 00 00 00 00 00 00 00 00 00 00 00																						1
22													55.00									1155 56 57 58 58 58 59 59 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50
56													56.00									<u>15</u> 6
57													57.00									<u>5</u> 7
58													58.00									58
59													59.00									59
60													60.00									60
61	NOTI	ES						Sample key		Pla	inner stru	icture	61.00		Disco	ntinuities						61
	Rel	lative den		ription N-Value	Consist	ency descrip	TN-Value	P-1 Disturbed sample PBT Permeat (SPT sample) PBT Vane Si	pility Test	Term Very thick		Spacing >	2000		Term widely spac		Spacing (> 20	000		FUKKEI	ig Engin	neers
	Ver	y loose		(meas) 0 - 4	Very soft	y U	(meas) inder 2	(Piston sampler)	emeter Test	Thick Medium	\mp	600 - 200 -	600	Mec	lely spaced lium spaced		600 - 2 200 - 6	600	rœx ((Yangon Fel : 951 - 801 www.myanma	Branch) 0896, 959 - rgeoconsulta	420089762
	Mediu	oose im dense ense	1	4 - 10 0 - 30 0 - 50	Soft Firm Stiff		2 - 4 5 - 8 9 - 15	Rock core sample (Single core tube) RQD (%) Rock core sample 0 - 25 Rock core sample 25 - 50	Very poor	Thin Very thir tickly lamir		60 - 20 - 6 -	60	Very o	sely spaced losely spac ly closely s		60 - 2 20 - 6 < 20	50	Revision N Revision D		Rev: (19.09.	
		/ dense		ver 50	Very stiff Hard	1	6 - 30 over 30	(Double core tube) Rock core sample (Core Loss) (Double core tube) 50 - 75 75 - 90	Fair T	hinly lamin		< (Remarks		· ···	- 20					\dashv
								w-i Water sample 90 - 10	0 Excellent													

вс	RE H	OLE N	o. BI	H-13				<u>B (</u>	D R I N G	L O (<u>r</u>							Job N		KYB-2 eet No.		5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	ological Sur	vey on the s	supplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	UIPMEN	Г	: <u>to</u> ł	HO "D1"				DATE	<u>: 11</u>	.08.2016			
	CATIO			unlyin Chin	Kat Road, 7	Thaketa To	wnship.		BORING ME				ary Direc	t Circula	tion	<u>CLIENT</u>	-					
		LEVEL	_		N 1859405	546 DI	EPTH :	42.00m	GROUND W			: <u>Ver</u>					NIPP	ON KC	DEI CO)., LT	D.	
			. <u>E 2</u>	04341.023 ,	11 1859405	<u>.540</u> DI	······································	42.0011	GROUND W		3455	. <u>1.5</u>		STANDAI	RD PENI	ETRATION	TEST			IPLING		— —
	÷		÷			NSITY ENCY				(III) H	CASING (DEPTH (m) DIAMETER (mm))	(m)				OD (ASTM						
î	ELEVATION (m)	iL - (m)	THICKNESS (m)	M	~	RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	(DEPT ETER (WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	CU	RVE OF BL		SAMPLE (Type & No.)	DEPTH GL - (m)			. î
SCALE (m)	LEVAT	DEPTH GL - (m)	HICKN	DIAGRAM	COLOUR	ELATI (or) CO	N TIOS			ATE &	ASING	/ATER	EPTH C	N-Va Blows /		N-Valu (Blows / 30)cm)	SAM (Type	EPTH C	TCR (%)	SCR (%)	RQD (%) SCALE (m)
ŝ	ш	Ω	F		ں brownish	≃ ⁻ Soft	Ø CLAY	Soft, brownish gray, moist, me	dium to high			\$	Д	0) 10	20 30	40 50		D	Ţ	s	× s
1					gray	5010	CLITI	plasticity, CLAY (Filled Soil)	unum to mgn				1.00					A-1	1.00			1
2	2.51	1.50	1.50		brownish	Firm	CLAY	Soft, brownish gray to gray, r	moist low to	1	2.00	¥	2.00	6/30				P-1	1.50			2
2					gray to	to soft	CLITT	medium plasticity, CLAY			Ø112		3.00	0/30	Ĭ			₩-1	2.45			
, , ,					gray			GL- $(4.25 \sim 4.45)$ m; fine grained layer is observed at that depth	l, Silty SAND				5.00		; I			D D-1	$\frac{3.00}{\binom{80}{80}}$ cm 3.80			
4													4.00	3/30	•			P-2	4.00			4
1 1	-0.99	5.00	3.50	× × ×						4			5.00	2/30				P-3	5.00			5
6				×	gray	Very	Silty	Very loose to dense, gray, mois	t to wet, fine				 6.00	4/30				P-4	5.45 6.00			6
7				×		loose to	SAND	grained, Silty SAND, with trace of	f mica mineral				7.00		\mathbf{N}				6.45 7.00			1
'				* * * * * *		dense		GL- (5.00 ~ 6.45)m; wet, the gr	rained size of					9/30		$ \downarrow $		P-5	7.45			Ť
7 8 9				* * *				sand is fine grained and silt percent at that depth	nt is increased				8.00	33/30				P-6	8.00 8.45			18 18
9				× × × × × ×									9.00	18/30		•		P- 7	9.00 9.45			19
1 <u>0</u>				< x x									 10.00	18/30				P-8	9.45			1
				k x x									 11.00			7			10.45 11.00			
1 <u>1</u>				<										11/30	ľ			P-9	11.45			Ē
1 1	-7.99	12.00	7.00							{			12.00	4/30	∢			P-10	12.00 12.45			
1 <u>3</u>					gray	Soft	Sandy	Soft to stiff, gray, moist, fine					13.00	13/30				P-11	13.00			
14						to stiff	CLAY	plasticity, Sandy CLAY, with t mineral	trace of mica				14.00	12/30				P-12	13.45 14.00			1.
1 <u>3</u> 1 <u>4</u> 1 <u>5</u> 1 <u>6</u>								CT (14.00 14.45)	1	11.08.16			15.00		N				14.45 15.00			E,
1.5								GL- $(14.00 \sim 14.45)$ m; medium fine grained, Silty SAND layer i		15.00	<u>,</u>			15/30	/			P-13	15.00			
16								intercalated layer at that depth					16.00	6/30	•			P-14	16.00 16.45			
17	12.99	17.00	5.00							4			17.00	12/30				P-15	17.00			
18				* * * * * *									 18.00	26/30		\mathbb{N}		P-16	17.45 18.00			
19				* * *	gray	Medium dense	Silty SAND	Medium dense to dense, gray, medium grained, Silty SAND	moist, fine to				 19.00			I			18.45 19.00			E,
12				× × × × × ×		to dense	Britte	incutini granicu, Sitty SATAD						23/30				P-17	19.45			Ê
2 <u>0</u>				< x x				GL- $(20.00 \sim 20.45)$ m, (24.00) $(28.00 \sim 28.45)$ m; trace of clay					20.00	33/30				P-18	20.00 20.45			12
2 <u>1</u>				< x x				those depths	is observed at				21.00	24/30				P-19	21.00 21.45			2
2 <u>2</u>				<									22.00	32/30				P-20	22.00			2
23				< x x									23.00					D at	22.45 23.00			
				* * * * * *										44/30				P-21	23.45			
181 191 191 201 211 221 231 241 251 261 271 281 291 291 201 201 201 201 201 201 201 20				<									24.00	18/30		<		P-22	24.00 24.45			17 100001100000000000000000000000000000
2 <u>5</u>				× × ×									25.00	30/30				P-23	25.00 25.45			2
2 <u>6</u>				× × × × × ×									26.00	50/20			\mathbb{N}	P-24	26.00			2
27				× × ×									27.00						26.35 27.00			1
				×××										29/30		И		P-25	27.45			Ē
28				*									28.00	15/30	a	$\langle $		P-26	28.00 28.45			12 1
29				× × ×									29.00	26/30		4		P-27	29.00 29.45			12
3 <u>0</u>				* * * * * *									30.00	30/30				P-28	30.00			13
31				× × × × × ×				Continue to next sheet								X			30.45			B
	<u>NOTI</u> Rel	E <u>S</u> ative den:	sity desc	ription	Consis	tency descrip	otion	Sample key P-1 Disturbed sample (SPT sample) PBT Permea	bility Test	Pl Term	anner stru	icture Spacing			Term	Discontinuiti 1	es Spacing (n	nm)		FUKKE	N CO	
		e density		T N-Value	Consistenc	C PC	N-Value (meas)	Undisturbed Sample VS Vane S (Piston sampler)	hear Test	Very thic Thick	k	> 600 -	2000 2000		ry widely Videly sp		> 20 600 - 20	00		Consulti (Yangor	ng Eng	ineers
		/ loose	-	0 - 4 4 - 10	Very soft Soft		inder 2 2 - 4	PMT Pressur D-1 (Denison sampler) Rock core sample		Medium Thin		200 -	- 600	Ν	fedium s losely sp	paced	200 - 6	00	FURKEN		60 G0000 AD	1012.55471
		m dense ense	_	10 - 30 30 - 50	Firm Stiff		5 - 8 9 - 15	(Single core tube) 0 - 25 Rock core sample 25 - 50		Very thi hickly lami		20 -			y closely mely clos	y spaced sely spaced	20 - 60	<u> </u>	Revision N Revision D		Rev: 06.09	01 9.2016
	Very	dense		over 50	Very stift Hard		6 - 30 over 30	(Double core tube) Rock core sample (Core Loss) (Double core tube) 50 - 7: 75 - 90		Chinly lami	nated	<	6	Remar	ks							
				-				9 w-1 Water sample	00 Excellent													

вс	RE H	OLE N	0. B F	I-13				BO	RING	L O G							Job N		KYB-2 leet No.	-	5 OF 2		
PR	.OJECT	NAME	: <u>Geo</u>	logical Surv	ey on the s	upplement	survey for	Bago River Bridge Construction Project	BORING EQ	UIPMENT	7	: <u>TO</u> F	HO "D1"		_	DATE							
	CATIC			nlyin Chin H	Kat Road, T	Thaketa To	wnship.		BORING ME					t Circulatio	<u>CLIE</u>	<u>NT</u>							
		LEVEL			N 1850405	546 DT	рти .	42.00m	ORIENTATIO			: <u>Ver</u>			-	NIPI	PON KC	DEI CO)., LI	D.			
	υκdin		: <u>E 2</u> (04341.023 ; :	1839405.	<u>40</u> DE	aritti :	+∠.₩II	GROUND W	ATEKLE		. <u>1.5(</u>		STANDARI	PENETRATIO	ON TEST		c + 1 +	1PLING		—		
	ê		Ē			NSITY ENCY				(III) H	(III) (III) (III) (III) (III) (IIII) (IIII) (IIII) (IIIII) (IIIII) (IIIII) (IIIII) (IIIIII) (IIIII) (IIIII) (IIIII) (IIIII) (IIIIII) (IIIIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIIII) (IIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIIII) (IIIII) (IIIIII) (IIIIIIII	(m) H			ETHOD (AST								
, î	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	×	~	RELATIVE DENSITY (or) CONSISTENCY	NAME	SOIL DESCRIPTION		DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	DEPTH GL - (m)	N-Value (Blows / 30cm)	CURVE OF I		SAMPLE (Type & No.)	DEPTH GL - (m)			_ fe		
SCALE (m)	LEVAJ	EPTH C	HICKN	DIAGRAM	COLOUR	ELATI (or) CO	N TIOS			ATE &	DIAM	VATER	EPTH 0	N-Va Blows /	N-Va (Blows /	(30cm)	SAM (Type	EPTH (TCR (%)	SCR (%)	RQD (%) SCALE (m)		
°.	ш	9	Т	× × ×	0 gray	Medium	Silty	Medium dense to dense, gray, n	noist, fine to			~			10 20 3	40 50		Ω	-	s	× 10		
3 <u>1</u>	-26.99	31.00	14.00	× × ×		dense to dense	SAND	medium grained, Silty SAND		4			31.00	15/30			P-29	31.00			3		
32					gray	Medium	Clayey	Medium dense to very dense, gra	v moist fina				32.00	21/30	$ \chi $		P-30	31.45 32.00	1 1		3		
					gray	dense to	SAND	to medium grained, low plastic Cla						21/30	$ $ \mathbb{N}			32.45					
22						very dense							33.00	32/30			P-31	33.00 33.45					
34										12.08.16 34.00	-		34.00	18/30			P-32	34.00 34.45			<u>3</u>		
35													35.00	50/20		\searrow	P-33	35.00			3		
32 33 34 35 36													36.00	22/20			P-34	35.35 36.00	1				
1 4	22.00	27.00	6.00											32/30		\mathbb{N}		36.45			In the second se		
	-32.99	37.00	6.00				<u> </u>			1			37.00	50/28			P-35	37.00 37.43			13		
38					yellowish brown	Very dense	Clayey SAND	Very dense, yellowish brown, grained, low plastic Clayey SAND	moist, fine				38.00	50/20		•	P-36	38.00 38.35			13		
38 39 40 41 42							GL - (37.00 - 37.43)m: your dense or					39.00	50/15			P-37	<u>39.00</u> 39.30]		3			
40								GL- (37.00 ~ 37.43)m; very dense medium grained, Silty SAND laye					40.00						1 1		Ē		
								at that depth						50/15			P-38	40.00	1 1		The second se		
41													41.00	50/25		•	P-39	41.00 41.40					
42	38 30	42.40	5 40							13.08.16	ł		42.00	50/25			P-40	42.00			1 4		
1 3	50.57	.2.70	J. TU				<u> </u>	This borehole is terminated	at 42.00m	1			43.00					72.40	1		4		
4 <u>3</u> 44 45 46								according to the termination criteri					44.00										
																					t in the second s		
45													45.00								4		
46													46.00								4		
													47.00								E 4		
483													48.00								4		
49													49.00								4		
50													50.00								5		
51													51.00								5		
																					.		
24													52.00										
53													53.00								5		
54													54.00								5		
5 <u>5</u>													55.00										
																					ш.,		
201													56.00								n mu		
57													57.00								5		
47 48 49 50 51 51 53 53 54 55 56 57 58 59 51 51 52 53 55 55 57 58 59 59 51 51 51 51 51 51 51 51													58.00								5		
59													59.00								E.		
1																					line in the second s		
60													60.00								6		
61	NOT	ES						Sample key		Pla	anner stru	icture	61.00		Discontin	uities					E 6		
	Re	lative den	1			tency descrip		P-1 Disturbed sample (SPT sample) PBT Permeab		Term Very thick		Spacing	g (mm) 2000	Verv	Term widely spaced	Spacing	(mm) 2000		FUKKE Consulti				
		ve density y loose		N-Value (meas) 0 - 4	Consistenc Very soft	,	N-Value (meas) under 2	D D 1 Undisturbed Sample	ear Test meter Test	Thick Medium	-	600 - 200 -	2000	Wi	lely spaced lium spaced	600 -	2000		(Yangor	n Branch	1)		
	L	oose		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	RQD (% Single core tube)	Term Very poor	Thin Very thir	1	60 - 20 -	200	Clo	sely spaced	60 - 20 -	200	FUKKEN ⁺ Revision N		Rev:			
	Loose Medium dense Dense Very dense			0 - 50 ver 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube) 50 - 75	Poor T	hickly lamin	nated	6 -	20	Extrem	ly closely space	_		Revision D	Date	06.09	0.2016		
'					Hard		over 30	Rock core sample (Core Loss) 75 - 90 W-1 Water sample 90 - 10	Good					Remarks									
								L- ··· 50 - 10	2114114					<u> </u>							_		

вс	ORE H	OLE N	0. B I	I-14				BC	RING	LOG								Job		KYB-2 eet No.		5 OF 2
PR	OJECT	NAME	: <u>Geo</u>	logical Sur	vey on the s	supplemen	t survey for	Bago River Bridge Construction Project	BORING EQ	JIPMENT		: <u>TO</u> F	HO "D1"				DATE	: 1	0.08.2016			
	OCATIC				Kat Road, 7	Thaketa To	wnship.		BORING ME	THOD		: <u>Rota</u>	ary Direc	t Circula	ntion	CLIEN	T					
		LEVEL							ORIENTATIO			: Vert					NIP	PON KO	DEI CO)., LT	D.	
	DORDIN	ATE	: <u>E 20</u>)4384.785 ; I	N 1859326	. <u>929</u> Di I	EPTH :_	43.00m	GROUND W.	ATER LEV		: <u>2.00</u>		STANDA		ETRATION	ITEST					
						SITY				(II)	CASING (DEPTH (m) & DIAMETER (mm))	(II)				DD (ASTN			SAM	IPLING		
	ELEVATION (m)	(m) -	THICKNESS (m)			RELATIVE DENSITY (or) CONSISTENCY	Ę	SOIL DESCRIPTION		DATE & DEPTH (m)	DEPTI TER (r	WATER DEPTH (m)	(m) - (ie Dem)	CU	RVE OF B	LOW O	No.)	(II)			-
SCALE (m)	EVATI	DEPTH GL - (m)	ICKNE	DIAGRAM	COLOUR	r) CON	IL NAME			TE & I	SING (TER D	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Val (Blows / 3	ue 30cm)	SAMPLE (Type & No.)	DEPTH GL - (m)	TCR (%)	SCR (%)	RQD (%) SCALE (m)
SC.	EL	DE	HT				SOIL			PA	C	/M/	DE	(Bl	0 10	20 30	40 50		DEI	TC	sc	RQ SC
1	3.52	1.00	1.00		brownish gray	Soft	CLAY	Soft, brownish gray, moist, med plasticity, CLAY (Filled Soil)	lium to high	10.08.16			 1.00					A-1	1.00			
										1.00	2.00							A-1	1.50			
					gray	Soft	CLAY	Soft, gray, moist, low to media CLAY with silt	im plasticity,		2.00 Ø112	¥	2.00	4/30	1			P-1 ∎w-1	2.00			Ē
3													3.00		I			U т-1	$\frac{3.00}{\binom{70}{80}}$ cm			3
2 3 4													4.00	2/30				P-2	3.70			4
5	-0.48	5.00	4.00										5.00		N				4.45			
	0.10	2.00	1.00	× × × × × ×						1				12/30	7			P-3	5.45	1		Ĭ
6				×××	gray	Loose to	Silty SAND	Loose to medium dense, gray, moi grained, Silty SAND, with trace of					6.00	6/30	4			P-4	6.00 6.45			1 6
7				x x x x x x		medium dense	Sint	Granica, only orand, with trace of	inter mineral				7.00	5/30				P-5	7.00			17
8				×				GL- $(11.00 \sim 11.45)$ m; trace of class that depth	ay is observed				8.00	10/20				P-6	7.45			8
6 7 7 8 9 9 10 11 11 12				* * * * * *				at that depth						18/30		1			8.45			The second se
9				× × ×									9.00	22/30)		P-7	9.00 9.45			
10				$\stackrel{\times}{\times} \stackrel{\times}{\times} \stackrel{\times}{\times} \stackrel{\times}{\times}$									10.00	20/30		\downarrow		P-8	<u>10.00</u> 10.45			10
11				× × ×									11.00	9/30	1			P-9	11.00			1
12				x x x									12.00						11.45			E I
1 3				× × × × × ×									12.00	12/30	Ì			P-10	12.00	1		
1 <u>3</u>	-8.48	13.00	8.00	× × ×						-			13.00	11/30	k			P-11	13.00 13.45			
14				× × × × × ×	gray	Stiff to	Sandy SILT	Stiff to very stiff, gray, moist, fine plasticity, Sandy SILT, with the					14.00	18/30				P-12	14.00			1.
1 3	-10.48	15.00	2.00	×		very stiff		mineral					15.00	22/30		$\boldsymbol{\lambda}$		P-13	14.45			1:
				x x x			6''L	Madium damas and a side and	6					22/30		Ĭ I		1-13	15.45			E.
16				× × ×	gray	Medium dense	Silty SAND	Medium dense, gray, moist to wet Silty SAND, with trace of mica mi					16.00	21/30		∦		P-14	16.00 16.45			
17				x									17.00	13/30	٩			P-15	17.00 17.45			1
18	-13.48	18.00	3.00	× × ×									18.00	28/30				P-16	18.00			
19				* * *	gray	Medium	Silty	Medium dense to dense, gray, 1	noist fine to				- 19.00						18.45 19.00			Ē
				× × × × × ×	Bruy	dense to	SAND	medium grained, Silty SAND	nonsų nue to					29/30		1/1		P-17	19.45			Ē
20				* * *		dense							20.00	22/30		$ \langle $		P-18	20.00			120
2 <u>1</u>				× × × × × ×									21.00	29/30		ЦŅ		P-19	21.00			2
22				× × × × × ×									22.00	22/30				P-20	21.45			2
				× × ×										22/30		N		1-20	22.45			
23				× × × × × ×									23.00	33/30				P-21	23.00 23.45			
19 20 21 22 23 24 25 26 27 28 20 20 20 20 20 20 20 20 20 20 20 20 20				× × ×									24.00	19/30		$\langle $		P-22	24.00 24.45			
25				× × × × × ×									25.00	28/30				P-23	25.00			2
26				× × × × × ×									26.00					п о 4	25.45			12
				×××										20/30		/		P-24	26.45			
2 <u>7</u>				× × × × × ×						11.08.16 27.00			27.00	13/30		\downarrow		P-25	27.00 27.45			<u>12</u>
28				×××									28.00	39/30				P-26	28.00			2
29				* * * * * *									29.00	17/30		\mathbb{H}		P-27	28.45 29.00	1		2
				* * *												N			29.45			
30				* * * * * *				Continue to ment also a					30.00	33/30				P-28	30.00 30.45			29 30 30 31 31
31	NOT	ES		×××		<u> </u>		Continue to next sheet Sample key		Pla	nner stru	icture	31.00			Discontinui	ities					<u></u> 3
		lative den	_	ription N-Value		tency descrip	otion N-Value	P-1 Disturbed sample (SPT sample) PBT Permeat	pility Test	Term Very thick		Spacing	g (mm) 2000	Ve	Term ry widely	1	Spacing	(mm) 2000		FUKKE Consulti		
		ve density y loose		(meas) 0 - 4	Consistend Very soft	.,	(meas) (meas)	PMT Pressure	mear Test	Thick Medium		600 - 200 -	2000		Widely sp Aedium s	aced	600 - 200 -	2000	FG=X	(Yangor Tel : 951 - 80	Branch	1) - 420089762
	L	oose 1m dense		4 - 10 0 - 30	Soft Firm		2 - 4 5 - 8	Control (Denison sampler) Rock core sample (Single core tube) Rock core sample (Single core tube)		Thin Very thin	+	60 - 20 -	200		Closely sj ry closely	baced	60 -	200	FUKKEN Revision N		argeoconsu Rev:	The second
	D	ense y dense	3	0 - 50 over 50	Stiff Very stiff		9 - 15 6 - 30	Rock core sample (Double core tube)	Poor	hickly lamin hinly lamina	_	6 -	20	Extre	emely clo	sely spaced			Revision L	Date	19.09	9.2016
	<u> </u>				Hard		over 30	Rock core sample (Core Loss) 75 - 90 w-1 Water sample 90 - 10	Good	,				Remai								
L								L=														

вс	ORE H	OLE N	o. Bł	H-14				<u>B (</u>	DRING									Je	ob No.	FKY Shee	B-201 t No.	5-015 2 Oi	7 2
								Bago River Bridge Construction Project					HO "D1"		_	Γ	DATE	:	10.08.	.2016~	13.08.	2016	_
	CATIC			nlyin Chin I	Kat Road, 7	Thaketa To	wnship.		BORING ME					t Circulatio	<u>n</u> <u>c</u>	IENT							
		LEVEL	_	2m 04384.785 ;]	N 1859326	929 DI	PTH ·	43.00m	ORIENTATI			: <u>Ver</u>			-		NIF	PPON	KOEI	с <i>О.,</i>	LTD		
	, orable										-			STANDARD TEST M	PENETRA ETHOD (.		EST			SAMPL	.ING		Τ
	(m) N	(II)	S (II)			RELATIVE DENSITY (or) CONSISTENCY	ш	SOIL DESCRIPTION		DATE & DEPTH (m)	CASING (DEPTH (m) & DIAMETER (mm))	WATER DEPTH (m)	(II)	(H	CURVE	OF BLC	ow •	m	())	(II)			
SCALE (m)	ELEVATION (m)	DEPTH GL - (m)	THICKNESS (m)	DIAGRAM	DUR	VTIVE	NAME	SOLE DESCRIPTION		E & DE	NG (D AMETI	ER DE	DEPTH GL - (m)	N-Value (Blows / 30cm)		N-Value		SAMPLE	pe & N	DEPTH GL - (m)	(%)	(%)	SCALE (m)
SCAL	ELEV	DEPT	THIC	DIAC	COLOUR	REL/ (or)	TIOS			DATI	CASI	TAW	DEPT	(Blov N	ини 10 20	ows / 30a <i>30</i>		°	Ê	DEPT	TCR (%)	RQD (%)	SCAL
3 <u>1</u>				× ×	gray	medium dense	Silty SAND	Medium dense to dense, gray, medium grained, Silty SAND	moist, fine to				31.00	33/30				р	29 31	.00			31
1 4	77 10	32.00	14.00	××> ××>		to dense	Sint	meetani gramee, siny sinto					32.00	33/30		Χ			31	45			1
1 3	-27.40	52.00	14.00							1				24/30		ř		P-		2.45			
3 <u>3</u>					gray	Medium dense	Clayey SAND	Medium dense to dense, gray, medium grained, low plastic Claye					33.00	22/30				P-		3.00 3.45			132
34						to dense			<i>.</i> .				34.00	16/30				P-		1.00 1.45			134
35								GL- (35.00 ~ 35.45)m; dense, medium grained, Silty SAND lay					35.00	35/30		\backslash		P-	33 35	5.00			135
36								as intercalated layer at that depth GL- $(36.00 \sim 36.45)$ m; very sti	iff anoty fina				36.00			X			35	5.45 5.00			
3 <u>3</u> 34 35 36 37								grained, low plasticity, Sandy C observed as intercalated layer at th	LAY layer is					25/30		\mathbb{V}		P-	34 36	5.45			
								observed as intercardied layer at th	ar uepui				37.00	31/30				P-		7.00 7.45			137
		38.00	6.00							-			38.00	50/22				P-	$36 \frac{38}{38}$	3.00 3.37			<u>13</u> 8
39 40 41 42 43				· · · · · · · · · · · · · · · · · · ·	gray	Very	Clayey	Very dense, gray, moist, fine					39.00	50/20				P-	37 39	0.00 0.35			
4 <u>0</u>						dense	SAND	grained, low plastic Clayey SANE)				40.00	50/28				р Р-	38 40	0.00			4
41										12.08.16			41.00				II		40).43 00			E 41
										41.00	1			50/30) P-	41	.45			Ē
42													42.00	50/28			•) P-		2.00 2.43			E42
4 <u>3</u>	-38.90	43.42	5.42							13.08.16 43.00	-		43.00	50/27				P-		3.00 3.42			43
44 <u>1</u> 45 <u>1</u> 46 <u>1</u>								This borehole is terminated	at 43.00m,	1			44.00										44
45								according to the termination criter					45.00										E45
46													46.00										Ē
101																							-
4 <u>7</u>													47.00										47
48													48.00										48
49													49.00										F
50													50.00										50
													51.00										
1													51.00										
52													52.00										<u>15</u> 2
53													53.00										53
54													54.00										54
55													55.00										55
201													56.00										120
57													57.00										57
4/1 48 49 50 51 51 51 51 51 51 51 51 51 51 51 51 51													58.00										58
59 59													59.00										59
60													60.00										154 1111155 111111
6 <u>0</u>																							
61	NOT			<u> </u>		I		Sample key			anner stru		61.00			ntinuitie	_						E 61
ĺ		lative den: ve density	-	N-Value	Consis	tency descrip	N-Value	PBT Permea	bility Test hear Test	Term Very thick			2000		Term videly spaced		>	g (mm) > 2000		Co	IKKEN nsulting	Enginee	
	Ver	y loose		0 - 4	Very sof	t ı	(meas) inder 2	D-1 (Piston sampler) D-1 Undisturbed Sample (Denison sampler) RQD (%		Thick Medium Thin		600 - 200 -	- 600	Med	lely spaced ium spaced	1	200	- 2000	FG		angon Bi 951 - 80108 .myanmarge	'ANCN) 96, 959 - 420 oconsultant	089762 20m
	Medi	ery loose 0 - 4 V Loose 4 - 10 dium dense 10 - 30		Soft Firm		2 - 4 5 - 8	Rock core sample (Single core tube) RQD (%) Rock core sample 0 - 25 Rock core sample 25 - 50	5 Very poor	Thin Very thir hickly lamir	_	60 -	60	Very c	sely spaced losely spac	ed	20 -	- 200		sion No. sion Date		Rev: 02 19.09.20		
	Dense 30 - 50			Stiff Very stif Hard	f 1	9 - 15 6 - 30 over 30	Construction 25 - 50 (Double core tube) 50 - 73 (Core Loss) 75 - 90	5 Fair	fhinly lamin	_	6 - <		Remarks	ly closely s	Paced	<	< 20					╡	
				L	natu	(00 Excellent														