CALCULATION-N60 & FRICTION ANGLE

		Drilling Started:	31-Jan-24
		Drilling Completed:	1-Feb-24
		X:	848800.636
		Y:	9750936.68
Country:	RWANDA	**Hole ID:**	BH1
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1	7	7	8	15	0.7	1	1	0.75	1	13.13	30.94
2	2	11	7	15	22	0.7	1	1	0.75	2	19.25	32.67
3	3	10	16	20	36	0.7	1	1	0.75	3	31.50	36.01
4	4	14	22	25	47	0.7	1	1	0.85	4	46.61	39.91
5	5	20	30	20	50	0.7	1	1	0.85	5	49.58	40.65
6	6	25	35	15	50	0.7	1	1	0.85	6	49.58	40.65
7	7	30	42	8	50	0.7	1	1	0.95	7	55.42	42.07
8	8	25	38	12	50	0.7	1	1	0.95	8	55.42	42.07
9	9	19	29	21	50	0.7	1	1	0.95	9	55.42	42.07
10	10	18	25	25	50	0.7	1	1	0.95	10	55.42	42.07
11	11	20	28	22	50	0.7	1	1	1	11	58.33	42.76
12	12	17	24	26	50	0.7	1	1	1	12	58.33	42.76

CALCULATION OF BEARING CAPACITY

		Drilling Started:	31-Jan-24
		Drilling Completed:	1-Feb-24
		X:	848800.636
		Y:	9750936.68
Country:	RWANDA	**Hole ID:**	BH at River crossing E
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter Tested		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
								kPa	kPa	kPa	kPa	kPa	
1	1.0	7	7	8	15	13.1		72.2	371.0438	185.5219	123.6813	120	
2	2.0	11	7	15	22	19.3		105.9	544.1975	272.0988	181.3992		
3	3.0	10	16	20	36	31.5		173.3	890.505	445.2525	296.835	290	
4	4.0	14	22	25	47	46.6		256.3	1317.618	658.8088	439.2059		
5	5.0	20	30	20	50	49.6		272.7	1401.721	700.8604	467.2403		
6	6.0	25	35	15	50	49.6	PI < 20	272.7	1401.721	700.8604	467.2403		
7	7.0	30	42	8	50	55.4		304.8	1566.629	783.3146	522.2097		
8	8.0	25	38	12	50	55.4		304.8	1566.629	783.3146	522.2097	400	
9	9.0	19	29	21	50	55.4		304.8	1566.629	783.3146	522.2097		
10	10.0	18	25	25	50	55.4		304.8	1566.629	783.3146	522.2097		
11	11.0	20	28	22	50	58.3		320.8	1649.083	824.5417	549.6944		
12	12.0	17	24	26	50	58.3		320.8	1649.083	824.5417	549.6944		

N: measured SPT N-value in field
Su: undrained shear strength,
qu^{ULS} : Ultimate Limit State
qu^{SLS}: Serviceability Limit State

CALCULATION-N60

		Drilling Started:	30-Jan-24
		Drilling Completed:	31-Jan-24
		X:	848328.615
		Y:	9750793.867
Country:	RWANDA	**Hole ID:**	BH2
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	**12.0**

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	**1.0**	**3**	**5**	**6**	**11**	**0.7**	**1**	**1**	**0.75**	**1.0**	**9.6**	**29.9**
2	**2.0**	**6**	**8**	**14**	**22**	**0.7**	**1**	**1**	**0.75**	**2.0**	**19.3**	**32.7**
3	**3.0**	**9**	**12**	**16**	**28**	**0.7**	**1**	**1**	**0.75**	**3.0**	**24.5**	**34.1**
4	**4.0**	**14**	**16**	**20**	**36**	**0.7**	**1**	**1**	**0.85**	**4.0**	**35.7**	**37.1**
5	**5.0**	**18**	**20**	**23**	**43**	**0.7**	**1**	**1**	**0.85**	**5.0**	**42.6**	**38.9**
6	**6.0**	**17**	**22**	**25**	**47**	**0.7**	**1**	**1**	**0.85**	**6.0**	**46.6**	**39.9**
7	**7.0**	**18**	**24**	**26**	**50**	**0.7**	**1**	**1**	**0.95**	**7.0**	**55.4**	**42.1**
8	**8.0**	**16**	**25**	**25**	**50**	**0.7**	**1**	**1**	**0.95**	**8.0**	**55.4**	**42.1**
9	**9.0**	**20**	**28**	**22**	**50**	**0.7**	**1**	**1**	**0.95**	**9.0**	**55.4**	**42.1**
10	**10.0**	**18**	**25**	**25**	**50**	**0.7**	**1**	**1**	**0.95**	**10.0**	**55.4**	**42.1**
11	**11.0**	**14**	**21**	**26**	**47**	**0.7**	**1**	**1**	**1**	**11.0**	**54.8**	**41.9**
12	**12.0**	**17**	**23**	**26**	**49**	**0.7**	**1**	**1**	**1**	**12.0**	**57.2**	**42.5**

CALCULATION OF BEARING CAPACITY

		Drilling Started:	30-Jan-24
		Drilling Completed:	31-Jan-24
		X:	848328.615
		Y:	9750793.867
Country:	RWANDA	**Hole ID:**	BH2
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
								kPa	kPa	kPa	kPa	kPa	
1	1.0	3	5	6	11	9.6		52.9	272.10	136.05	90.70	90	
2	2.0	6	8	14	22	19.3		105.9	544.20	272.10	181.40	180	
3	3.0	9	12	16	28	24.5		134.8	692.62	346.31	230.87	230	
4	4.0	14	16	20	36	35.7		196.4	1009.24	504.62	336.41	330	
5	5.0	18	20	23	43	42.6		234.5	1205.48	602.74	401.83		
6	6.0	17	22	25	47	46.6	PI < 20	256.3	1317.62	658.81	439.21		
7	7.0	18	24	26	50	55.4		304.8	1566.63	783.31	522.21		
8	8.0	16	25	25	50	55.4		304.8	1566.63	783.31	522.21	400	
9	9.0	20	28	22	50	55.4		304.8	1566.63	783.31	522.21		
10	10.0	18	25	25	50	55.4		304.8	1566.63	783.31	522.21		
11	11.0	14	21	26	47	54.8		301.6	1550.14	775.07	516.71		
12	12.0	17	23	26	49	57.2		314.4	1616.10	808.05	538.70		

N: measured SPT N-value in field
Su: undrained shear strength,
qu^{ULS} : Ultimate Limit State
qu^{SLS}: Serviceability Limit State

CALCULATION-N60

		Drilling Started:	29-Jan-24
		Drilling Completed:	29-Jan-24
		X:	829943.454
		Y:	9746936.722
Country:	RWANDA	**Hole ID:**	BH3
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	$N60_{corr}$	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	N60corr =15 + 0.5 * (N60 - 15)	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1.0	3	4	5	9	0.7	1	1	0.75	1.0	7.9	11.4	30.5
2	2.0	4	6	7	13	0.7	1	1	0.75	2.0	11.4	13.2	31.0
3	3.0	1	2	2	4	0.7	1	1	0.75	3.0	3.5	9.3	29.8
4	4.0	2	2	2	4	0.7	1	1	0.85	4.0	4.0	9.5	29.9
5	5.0	2	3	2	5	0.7	1	1	0.85	5.0	5.0	10.0	30.0
6	6.0	3	2	2	4	0.7	1	1	0.85	6.0	4.0	9.5	29.9
7	7.0	2	3	2	5	0.7	1	1	0.95	7.0	5.5	10.3	30.1
8	8.0	2	2	2	4	0.7	1	1	0.95	8.0	4.4	9.7	30.0
9	9.0	2	3	4	7	0.7	1	1	0.95	9.0	7.8	11.4	30.4
10	10.0	3	4	5	9	0.7	1	1	0.95	10.0	10.0	12.5	30.8
11	11.0	4	8	10	18	0.7	1	1	1	11.0	21.0	18.0	32.3
12	12.0	5	9	11	20	0.7	1	1	1	12.0	23.3	19.2	32.7

CALCULATION OF BEARING CAPACITY

		Drilling Started:	29-Jan-24
		Drilling Completed:	29-Jan-24
		X:	829943.454
		Y:	9746936.722
Country:	RWANDA	**Hole ID:**	BH at Busoro bridge
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter		Test Results												Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	N60corr	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
									kPa	kPa	kPa	kPa	kPa	
1	1.0	3	4	5	9	7.9	11.44		62.9	323.34	161.67	107.78	100	
2	2.0	4	6	7	13	11.4	13.19		72.5	372.81	186.41	124.27		
3	3.0	1	2	2	4	3.5	9.25		50.9	261.50	130.75	87.17	87	N: measured SPT N-value in field **Su:** undrained shear strength, **qu^{ULS} :**Ultimate Limit State **qu^{SLS}:**Serviceability Limit State
4	4.0	2	2	2	4	4.0	9.48		52.2	268.09	134.05	89.36		
5	5.0	2	3	2	5	5.0	9.98		54.9	282.11	141.06	94.04		
6	6.0	3	2	2	4	4.0	9.48	PI < 20	52.2	268.09	134.05	89.36		
7	7.0	2	3	2	5	5.5	10.27		56.5	290.36	145.18	96.79		
8	8.0	2	2	2	4	4.4	9.72		53.4	274.69	137.35	91.56		
9	9.0	2	3	4	7	7.8	11.38		62.6	321.69	160.84	107.23		
10	10.0	3	4	5	9	10.0	12.49		68.7	353.02	176.51	117.67		
11	11.0	4	8	10	18	21.0	18.00		99.0	508.86	254.43	169.62		
12	12.0	5	9	11	20	23.3	19.17		105.4	541.84	270.92	180.61		

CALCULATION-N60

		Drilling Started:	28-Jan-24
		Drilling Completed:	28-Jan-24
		X:	828691.767
		Y:	9746890.035
Country:	RWANDA	**Hole ID:**	BH4
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1.0	2	3	3	6	0.7	1	1	0.75	1.0	5.3	28.7
2	2.0	2	4	6	10	0.7	1	1	0.75	2.0	8.8	29.7
3	3.0	4	6	8	14	0.7	1	1	0.75	3.0	12.3	30.7
4	4.0	10	14	15	29	0.7	1	1	0.85	4.0	28.8	35.3
5	5.0	17	27	23	50	0.7	1	1	0.85	5.0	49.6	40.6
6	6.0	14	28	22	50	0.7	1	1	0.85	6.0	49.6	40.6
7	7.0	11	17	23	40	0.7	1	1	0.95	7.0	44.3	39.3
8	8.0	18	25	25	50	0.7	1	1	0.95	8.0	55.4	42.1
9	9.0	16	23	27	50	0.7	1	1	0.95	9.0	55.4	42.1
10	10.0	22	30	20	50	0.7	1	1	0.95	10.0	55.4	42.1
11	11.0	21	28	22	50	0.7	1	1	1	11.0	58.3	42.8
12	12.0	20	32	18	50	0.7	1	1	1	12.0	58.3	42.8

CALCULATION OF BEARING CAPACITY

		Drilling Started:	28-Jan-24
		Drilling Completed:	28-Jan-24
		X:	828691.767
		Y:	9746890.035
Country:	RWANDA	**Hole ID:**	BH at PI
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter Tested		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
								kPa	kPa	kPa	kPa	kPa	
1	1.0	2	3	3	6	5.3		28.9	148.4175	74.20875	49.4725	40	
2	2.0	2	4	6	10	8.8		48.1	247.3625	123.6813	82.45417	80	
3	3.0	4	6	8	14	12.3		67.4	346.3075	173.1538	115.4358	115	
4	4.0	10	14	15	29	28.8		158.2	812.9981	406.499	270.9994	270	
5	5.0	17	27	23	50	49.6		272.7	1401.721	700.8604	467.2403		
6	6.0	14	28	22	50	49.6	PI < 20	272.7	1401.721	700.8604	467.2403		
7	7.0	11	17	23	40	44.3		243.8	1253.303	626.6517	417.7678		
8	8.0	18	25	25	50	55.4		304.8	1566.629	783.3146	522.2097	400	
9	9.0	16	23	27	50	55.4		304.8	1566.629	783.3146	522.2097		
10	10.0	22	30	20	50	55.4		304.8	1566.629	783.3146	522.2097		
11	11.0	21	28	22	50	58.3		320.8	1649.083	824.5417	549.6944		
12	12.0	20	32	18	50	58.3		320.8	1649.083	824.5417	549.6944		

N: measured SPT N-value in field
Su: undrained shear strength,
qu^{ULS} : Ultimate Limit State
qu^{SLS}: Serviceability Limit State

CALCULATION-N60

		Drilling Started:	27-Jan-24
		Drilling Completed:	27-Jan-24
		X:	828163.534
		Y:	9746631.583
Country:	RWANDA	**Hole ID:**	BH5
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1.0	6	7	9	16	0.7	1	1	0.75	1.0	14.0	31.2
2	2.0	10	8	12	20	0.7	1	1	0.75	2.0	17.5	32.2
3	3.0	14	17	21	38	0.7	1	1	0.75	3.0	33.3	36.5
4	4.0	17	22	27	49	0.7	1	1	0.85	4.0	48.6	40.4
5	5.0	25	35	15	50	0.7	1	1	0.85	5.0	49.6	40.6
6	6.0	20	30	20	50	0.7	1	1	0.85	6.0	49.6	40.6
7	7.0	21	38	12	50	0.7	1	1	0.95	7.0	55.4	42.1
8	8.0	25	35	15	50	0.7	1	1	0.95	8.0	55.4	42.1
9	9.0	22	40	10	50	0.7	1	1	0.95	9.0	55.4	42.1
10	10.0	20	38	12	50	0.7	1	1	0.95	10.0	55.4	42.1
11	11.0	23	42	8	50	0.7	1	1	1	11.0	58.3	42.8
12	12.0	17	32	18	50	0.7	1	1	1	12.0	58.3	42.8

CALCULATION OF BEARING CAPACITY

		Drilling Started:	27-Jan-24
		Drilling Completed:	27-Jan-24
		X:	828163.534
		Y:	9746631.583
		Hole ID:	BH5
Site Location:	BUGESERA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
							PI < 20	kPa	kPa	kPa	kPa	kPa	N: measured SPT N-value in field **Su:** undrained shear strength, **qu^{ULS} :**Ultimate Limit State **qu^{SLS}:**Serviceability Limit State
1	1.0	6	7	9	16	14.0		77.0	395.78	197.89	131.9267	130	
2	2.0	10	8	12	20	17.5		96.3	494.725	247.3625	164.9083		
3	3.0	14	17	21	38	33.3		182.9	939.9775	469.9888	313.3258	300	
4	4.0	17	22	27	49	48.6		267.3	1373.686	686.8432	457.8955	400	
5	5.0	25	35	15	50	49.6		272.7	1401.721	700.8604	467.2403		
6	6.0	20	30	20	50	49.6		272.7	1401.721	700.8604	467.2403		
7	7.0	21	38	12	50	55.4		304.8	1566.629	783.3146	522.2097		
8	8.0	25	35	15	50	55.4		304.8	1566.629	783.3146	522.2097		
9	9.0	22	40	10	50	55.4		304.8	1566.629	783.3146	522.2097		
10	10.0	20	38	12	50	55.4		304.8	1566.629	783.3146	522.2097		
11	11.0	23	42	8	50	58.3		320.8	1649.083	824.5417	549.6944		
12	12.0	17	32	18	50	58.3		320.8	1649.083	824.5417	549.6944		

CALCULATION-N60

		Drilling Started:	26-Jan-24
		Drilling Completed:	26-Jan-24
		X:	824300.08
		Y:	9747614.15
Country:	RWANDA	**Hole ID:**	BH6
Site Location:	NYANZA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12.0

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1.0	3	4	4	8	0.7	1	1	0.75	1.0	7.0	29.2
2	2.0	4	5	7	12	0.7	1	1	0.75	2.0	10.5	30.2
3	3.0	7	8	12	20	0.7	1	1	0.75	3.0	17.5	32.2
4	4.0	10	14	16	30	0.7	1	1	0.85	4.0	29.8	35.5
5	5.0	14	20	23	43	0.7	1	1	0.85	5.0	42.6	38.9
6	6.0	11	17	20	37	0.7	1	1	0.85	6.0	36.7	37.4
7	7.0	12	20	25	45	0.7	1	1	0.95	7.0	49.9	40.7
8	8.0	13	23	25	48	0.7	1	1	0.95	8.0	53.2	41.5
9	9.0	17	25	25	50	0.7	1	1	0.95	9.0	55.4	42.1
10	10.0	14	24	26	50	0.7	1	1	0.95	10.0	55.4	42.1
11	11.0	13	20	24	44	0.7	1	1	1	11.0	51.3	41.1
12	12.0	17	26	24	50	0.7	1	1	1	12.0	58.3	42.8

CALCULATION OF BEARING CAPACITY

		Drilling Started:	26-Jan-24
		Drilling Completed:	26-Jan-24
		X:	824300.08
		Y:	9747614.15
Country:	RWANDA	**Hole ID:**	BH6
Site Location:	NYANZA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
								kPa	kPa	kPa	kPa	kPa	
1	1.0	3	4	4	8	7.0		38.5	197.89	98.945	65.96333	65	
2	2.0	4	5	7	12	10.5		57.8	296.835	148.4175	98.945	98	
3	3.0	7	8	12	20	17.5		96.3	494.725	247.3625	164.9083		
4	4.0	10	14	16	30	29.8		163.6	841.0325	420.5163	280.3442	165	
5	5.0	14	20	23	43	42.6		234.5	1205.48	602.74	401.8266		
6	6.0	11	17	20	37	36.7	PI < 20	201.8	1037.273	518.6367	345.7578		N: measured SPT N-value in field **Su:** undrained shear strength, **qu^{ULS} :**Ultimate Limit State **qu^{SLS}:**Serviceability Limit State
7	7.0	12	20	25	45	49.9		274.3	1409.966	704.9831	469.9888		
8	8.0	13	23	25	48	53.2		292.6	1503.964	751.982	501.3213		
9	9.0	17	25	25	50	55.4		304.8	1566.629	783.3146	522.2097	400	
10	10.0	14	24	26	50	55.4		304.8	1566.629	783.3146	522.2097		
11	11.0	13	20	24	44	51.3		282.3	1451.193	725.5967	483.7311		
12	12.0	17	26	24	50	58.3		320.8	1649.083	824.5417	549.6944		

CALCULATION-N60

		Drilling Started:	28-Jan-24
		Drilling Completed:	28-Jan-24
		X:	829036
		Y:	9725433
Country:	RWANDA	**Hole ID:**	BH7
Site Location:	GISAGARA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Test No	SPT depth (m)	First step No of Blows	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value					SPT depth (m)	Corrected N60	Friction Angle (φ') [deg]
						EH	CB	CS	CR		N60=(EH×CB×CS×CR)×N/0.60	$\varphi'(deg)= 27.1+0.3(N_1)_{60}-0.00054[(N_1)_{60}]^2$
1	1.0	4	4	7	11	0.7	1	1	0.75	1.0	9.6	29.9
2	2.0	7	9	12	21	0.7	1	1	0.75	2.0	18.4	32.4
3	3.0	14	20	27	47	0.7	1	1	0.75	3.0	41.1	38.5
4	4.0	19	30	20	50	0.7	1	1	0.85	4.0	49.6	40.6
5	5.0	25	35	15	50	0.7	1	1	0.85	5.0	49.6	40.6
6	6.0	20	40	10	50	0.7	1	1	0.85	6.0	49.6	40.6
7	7.0	30	40	10	50	0.7	1	1	0.95	7.0	55.4	42.1
8	8.0	25	35	15	50	0.7	1	1	0.95	8.0	55.4	42.1
9	9.0	28	32	18	50	0.7	1	1	0.95	9.0	55.4	42.1
10	10.0	30	38	12	50	0.7	1	1	0.95	10.0	55.4	42.1
11	11.0	27	42	8	50	0.7	1	1	1	11.0	58.3	42.8
12	12.0	30	45	5	50	0.7	1	1	1	12.0	58.3	42.8

CALCULATION OF BEARING CAPACITY

		Drilling Started:	23-Jan-24
		Drilling Completed:	23-Jan-24
		X:	829036
		Y:	9725433
Country:	RWANDA	**Hole ID:**	BH7
Site Location:	GISAGARA DISTRICT	**Chainage:**	N/A
Location Note:		**Total Depth (m):**	12

Parameter		Test Results											Legend
Test No	SPT depth (m)	First step No of Blows /15cm	Second step No of Blows /15cm	Third step No of Blows /15cm	''N'' Value	Corrected N60	Plasticity index PI	Su	q_u	q_u **ULS**	qu SLS	Allowable Bearing Capacity (Service limit state)	
								kPa	kPa	kPa	kPa	kPa	
1	1.0	4	4	7	11	9.6		52.9	272.0988	136.0494	90.69958	90	
2	2.0	7	9	12	21	18.4		101.1	519.4613	259.7306	173.1538	170	
3	3.0	14	20	27	47	41.1		226.2	1162.604	581.3019	387.5346	380	
4	4.0	19	30	20	50	49.6		272.7	1401.721	700.8604	467.2403		N: measured SPT N-value in field
5	5.0	25	35	15	50	49.6		272.7	1401.721	700.8604	467.2403		**Su:** undrained shear strength,
6	6.0	20	40	10	50	49.6	PI < 20	272.7	1401.721	700.8604	467.2403		**qu^{ULS} :**Ultimate Limit State
7	7.0	30	40	10	50	55.4		304.8	1566.629	783.3146	522.2097		**qu^{SLS}:**Serviceability Limit State
8	8.0	25	35	15	50	55.4		304.8	1566.629	783.3146	522.2097	400	
9	9.0	28	32	18	50	55.4		304.8	1566.629	783.3146	522.2097		
10	10.0	30	38	12	50	55.4		304.8	1566.629	783.3146	522.2097		
11	11.0	27	42	8	50	58.3		320.8	1649.083	824.5417	549.6944		
12	12.0	30	45	5	50	58.3		320.8	1649.083	824.5417	549.6944		