DATE : 26/11/2020

220 KV DOUBLE CIRCUIT SYMBION TL

STACKING TABLE

TOWER NUMBER PI	TOWER NUMBER FINAL	TOWER NUMBER CONSTRUC.	TYPE	LOWEST CONDUCTOR HEIGHT	TOTAL TOWER HEIGHT	DEVIATION ANGLE [°] + RIGHT - LEFT	STATION [m]	AXIS ELEVATION	SPAN LENGTHS (m) CURRENT SPAN (m)	WIND SPAN (m)	WEIGHT SPAN (@25° + wind) (m)	LENGTH OF SECTION	RULLING SPAN	TYPE OF CONDUCTORS	TYPE OF GROUND WIRES	BODY EXTENSION	LEG EXTENSION 1	LEG EXTENSION 2	LEG EXTENSION 3	LEG EXTENSION 4	SETTING LEVEL (M)	SOIL TYPE	FOUNDATION TYPE 1	FOUNDATION TYPE 2	FOUNDATION TYPE 3	FOUNDATION TYPE 4	CROSSINGS AND COMMENTS
A.P.1	1	1	An 75 D-T	27,60	43,2	0,00	0,00	1473,98		79,00	-651	150,93	145,20	2 x ACSR HAWK 282 mm2	GSW 7/3.51 / OPGW 48F	+0	+3.00	+6.00	+6.00	+0.00							
									150,93																		ROAD
A.P.2	2	2	An 30 B-C	27,60	41,5	-26,04	150,93	1517,77		233,00	499					+0	+0.00	+3.00	+6.00	+3.00							
									305,86																		30 KV LINE
	3	3	Suspension A	25,90	42,8	0,00	456,78	1562,87		332,00	228	654,85	325,80			+3	+0.00	+6.00	+6.00	+0.00							
									349,00																		30 KV LINE
	4	4	An 30 B-C	33,60	44,5	0,00	805,78	1615,97		304,00	-326					+3	+6.00	+6.00	+6.00	+3.00							
									237,97																		
A.P.3	5	5	An 30 B-C	27,60	41,5	-14,92	1043,75	1712,33		215,00	1950	237,97	222,90			+0	+3.00	+6.00	+3.00	+3.00							
									172,50																		
	6	6	An 30 B-C	30,50	44,5	0,00	1216,25	1678,71		213,00	-285	172,50	170,30			+3	+0.00	+3.00	+6.00	+3.00							
									250,30																		
	7	7	An 30 B-C	33,60	47,5	0,00	1466,55	1673,64		306,00	-698	250,30	249,50			+6	+6.00	+3.00	+3.00	+6.00							
									349,83																		
A.P.4	8	8	An 30 B-C	27,60	41,5	-0,96	1816,38	1769,33		282,00	1958	349,83	338,20			+0	+3.00	+6.00	+6.00	+0.00							
									197,70																		
	9	9	An 30 B-C	27,60	41,5	0,00	2014,08	1724,75		222,00	-697	197,70	192,20			+0	+0.00	+3.00	+6.00	+3.00							
									240,34																		
	10	10	An 30 B-C	27,60	41,5	0,00	2254,42	1740,65		191,00	-698	240,34	239,00			+0	+3.00	+6.00	+3.00	+0.00							
									128,29																		
A.P.5	11	11	An 30 B-C	27,60	41,5	-19,54	2382,71	1800,23		192,00	739	128,29	117,20			+0	+3.00	+6.00	+6.00	+0.00							
									239,63																		30 KV LINE
A.P.6	12	12	An 30 B-C	27,60	41,5	12,48	2622,35	1841,49		300,00	1780	239,63	235,90			+0	+3.00	+6.00	+3.00	+3.00							
									348,11																		ROAD
	13	13	An 30 B-C	27,60	41,5	0,00	2970,45	1760,53		344,00	-474	348,11	337,20			+0	+3.00	+6.00	+3.00	+3.00							
									330,28																		
	14	14	Suspension A	22,90	39,8	0,00	3300,73	1758,63		315,00	170					+0	+3.00	+6.00	+6.00	+3.00							
									300,25																		
	15	15	Suspension A	22,90	36,8	0,00	3600,98	1764,44		269,00	616	1127,90	287,20			+0	+3.00	+3.00	+3.00	+3.00							
									236,45																		
	16	16	Suspension A	22,90	36,8	0,00	3837,43	1746,85		249,00	167					+0	+3.00	+3.00	+3.00	+3.00							
									260,92																		
A.P.7	17	17	An 75 D-T	27,60	43,2	54,42	4098,35	1728,39		210,00	-550					+0	+0.00	+6.00	+3.00	+0.00							
									154,97																		
	18	18	Suspension A	22,90	36,8	0,00	4253,32	1764,58		157,00	1369	306,51	146,10			+0	+3.00	+3.00	+3.00	+3.00							
									151,55																		
A.P.8	19	19	An 75 D-T	27,60	43,2	0,00	4404,87	1725,54		98,00	-428					+0	+0.00	+6.00	+6.00	+0.00							
									40,00																		
	20	20	Existing Tower	21,50	38,8		4444,87	1721,9																			T-OFF CONNECTION TO EXISTING 220 kV Bwishyura - Gisenyi TL

Note:
TYPE DE CONDUCTEUR: **2 x ACSR HAWK (281 mm2)**
EARTH WIRE TYPE: **OPGW -48 / GSW 7/3.51**

DATE : 26/11/2020

220 KV DOUBLE CIRCUIT SYMBION TL

STAKING MATERIAL

TOWER							ACSR HAWK CONDUCTOR															ACS					OPGW 24						TOWER PLATES			
NUMBER							RIGHT CIRCUIT - CHAINS								LEFT CIRCUIT - CHAINS																						
							SUSPENSION			TENSION		JUMPER			SUSPENSION			TENSION		JUMPER																	
PI	FINAL	CONSTRUC.	TYPE	LOWEST CONDUCTOR HEIGHT	TOTAL TOWER HEIGHT	DEVIATION ANGLE [°] + RIGHT - LEFT	TYPE	QTY	COUNTER WEIGHT (PER PHASE) Kg	TYPE	QTTE.	TYPE	QTTE.	DAMPER	TYPE	QTY	COUNTER WEIGHT (PER PHASE) Kg	TYPE	QTTE.	TYPE	QTTE.	DAMPER	TYPE	QTY	TYPE	QTY	DAMPER	TYPE	QTY	TYPE	QTY	DAMPER	jointing box	OPGW DRUM No & LENGTH	NUMBER	DANGER	HELICOPTER	PHASE SIGNALING
A.P.1	1	1	An 75 D-T	27,60	43,2	0,00				DT	6							DT	6						TGSW	2				TOF	2						
A.P.2	2	2	An 30 B-C	27,60	41,5	-26,04				DT	6							DT	6						TGSW	2				TOF	2						
	3	3	Suspension A	25,90	42,8	0,00	SS	3							SS	3							SGSW	1				SOF	1								
	4	4	An 30 B-C	33,60	44,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
A.P.3	5	5	An 30 B-C	27,60	41,5	-14,92				DT	6							DT	6						TGSW	2				TOF	2						
	6	6	An 30 B-C	30,50	44,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
	7	7	An 30 B-C	33,60	47,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
A.P.4	8	8	An 30 B-C	27,60	41,5	-0,96				DT	6							DT	6						TGSW	2				TOF	2						
	9	9	An 30 B-C	27,60	41,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
	10	10	An 30 B-C	27,60	41,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
A.P.5	11	11	An 30 B-C	27,60	41,5	-19,54				DT	6							DT	6						TGSW	2				TOF	2						
A.P.6	12	12	An 30 B-C	27,60	41,5	12,48				DT	6							DT	6						TGSW	2				TOF	2						
	13	13	An 30 B-C	27,60	41,5	0,00				DT	6							DT	6						TGSW	2				TOF	2						
	14	14	Suspension A	22,90	39,8	0,00	SS	3							SS	3							SGSW	1				SOF	1								
	15	15	Suspension A	22,90	36,8	0,00	SS	3							SS	3							SGSW	1				SOF	1								
	16	16	Suspension A	22,90	36,8	0,00	SS	3							SS	3							SGSW	1				SOF	1								
A.P.7	17	17	An 75 D-T	27,60	43,2	54,42				DT	6							DT	6						TGSW	2				TOF	2						
	18	18	Suspension A	22,90	36,8	0,00	SS	3							SS	3							SGSW	1				SOF	1								
A.P.8	19	19	An 75 D-T	27,60	43,2	0,00				DT	6							DT	6						TGSW	2				TOF	2						
	20	20	Existing Tower	21,50	38,8					DT	3							DT	3						TGSW	1				TOF	1						

Note:
TYPE DE CONDUCTEUR: **2 x ACSR HAWK (281 mm2)**
EARTH WIRE TYPE: **OPGW -48 / GSW 7/3.51**

SS: SINGLE SUSPENSION SET
DS: DOUBLE SUSPENSION SET
JS: JUMPER SUSPENSION SET

DT: DOUBLE TENSION SET
ST: SINGLE TENSION SET
SGSW: SUSPENSION SET GSW
TGSW: TENSION SET GSW

SOPGW: SUSPENSION SET OPGW
TOPGW: TENSION SET OPGW