

Обект: Реконструкция на ВЛ 110kV Близнак
Част: Електрическа и геология
Документ: Приложение №3
Заглавие: Количества стълбове - арматури, вериги, изкопи и бетон

стълб №	тип на стълба	стомана стълб, t	болтове стълб, kg	стомана в основата, kg	проектен изкоп, m ³	проектна обратна запислка, m ³	проектно за разхвърляне, m ³	кофраж за фундаменти, m ²	тип фундамент	подложен бетон, m ³	бетон фундамент, m ³	стар стълб в стълбата, №	наличен изкоп от премахнат стълб, m ³	реален изкоп за CPC, m ³	количество земя маса при стълба, m ³	реална обратна заплата, m ³	реално разхвърляне почва, m ³	реално доставка почва, m ³	Тип заземител	ЕН верига, к-т	ЕО верига, к-т	ЕН верига за мост, к-т	мостова връзка, бр.	опъвателно окачване С-70, к-т	носецо окачване OPGW A20SA 66, к-т	опъвателно окачване OPGW A20SA 66, к-т	кутия OPGW, бр.	фиксиращи клепи за OPGW, бр.
---	Елхово	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	1	---	1	---	16
1	60.16.D-отв.к.	7.625	609.980	487.03	138.72	89.36	49.36	18.98	Ф10	4.62	44.73	1	43.40	95.32	121.77	89.36	32.41	---	2K	---	6	---	3	1	---	2	---	1
2	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	2	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
3	Н.19.D	4.019	258.140	300.01	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	3	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
4	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	4	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
5	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	5	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
6	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	6	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
7	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	7	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
8	Н.19.D	4.019	258.140	300.01	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	8	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
9	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	9	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
10	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	10	25.14	68.94	87.50	65.07	22.43	---	2K	3	---	---	---	1	---	---	---	
11	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	11	38.45	55.63	81.03	65.07	15.96	---	2K	3	---	---	---	1	---	---	---	
12	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	12	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
13	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
14	30.16.D	6.095	406.930	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	14	20.90	60.22	75.42	57.16	18.26	---	2K	---	6	---	3	---	---	2	1	16
15	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	15	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
16	Н.19.D	4.019	258.140	300.01	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	16	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
17	Н.19.D	4.019	258.140	300.01	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
18	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
19	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	20	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
20	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	21	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
21	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	22	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
22	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	23	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
23	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	24	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
24	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
25	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	26	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
26	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
27	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	28	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
28	Р.19.D - вщ.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	2	1	---
29	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
30	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	31	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
31	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	32	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
32	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	33	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
33	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
34	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	1	---	---	---	
35	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	36	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
36	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	37	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
37	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	1	---	---	---	
38	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	39	38.45	55.63	81.03	65.07	15.96	---	2K	3	---	---	---	1	---	---	---	
39	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	40	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
40	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	41	20.90	73.18	88.38	65.07	23.31	---	2K	3	---	---	---	1	---	---	---	
41	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	1	---	---	---	
42	30.16.D	6.095	406.930	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	43	38.45	42.67	68.07	57.16	10.91	---	Л	---	6	---	3	---	---	2	1	16
43	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	44	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
44	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	45	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
45	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	46	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
46	Н.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	47	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
47	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	48	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
48	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	49	38.45	55.63	81.03	65.07	15.96	---	Л	3	---	---	---	1	---	---	---	
49	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	50	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	
50	Н.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	51	20.90	73.18	88.38	65.07	23.31	---	Л	3	---	---	---	1	---	---	---	

Обект: Реконструкция на ВЛ 110kV Близнак
Част: Електрическа и геология
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стълб №	тип на стълба	стомана стълб, t	болтове стълб, kg	стомана в основата, kg	проектен изкоп, m ³	проектна обратна записка, m ³	проектно за разхвърляне, m ³	кофраж за фундаменти, m ²	тип фундамент	подложен бетон, m ³	бетон фундамент, m ³	стар стълб в стълбата, №	наличен изкоп от премахнат стълб, m ³	реален изкоп за CPC, m ³	количество земя маса при стълба, m ³	реална обратна заплата, m ³	реално разхвърляне почва, m ³	реално доставка почва, m ³	Тип заземител	ЕН верига, к-т	ЕО верига, к-т	ЕН верига за мост, к-т	мостова връзка, бр.	опъвателно окачване С-70, к-т	носещо окачване OPGW A20SA 66, к-т	опъвателно окачване OPGW A20SA 66, к-т	кутия OPGW, бр.	фиксиращи клепи за OPGW, бр.
97	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
98	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
99	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	103	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
100	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	104	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
101	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	105	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
102	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	106	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	1	16
103	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	107	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
104	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	108	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
105	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	109	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
106	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	110	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
107	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
108	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
109	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
110	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	114	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
111	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
112	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	116	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
113	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	117	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
114	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	118	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	1	16
115	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	119	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
116	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	120	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
117	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
118	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
119	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	123	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
120	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	124	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
121	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	125	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
122	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	126	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
123	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	127	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
124	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	128	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	1	16
125	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	129	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
126	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
127	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
128	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
129	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
130	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
131	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
132	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
133	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	138	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	1	16
134	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
135	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	141	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
136	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
137	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	144	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
138	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	145	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
139	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	147	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
140	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	148	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
141	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	149	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
142	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	150	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
143	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	151	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
144	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	152	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
145	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	153	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
146	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	154	7.40	86.68														

Обект: Реконструкция на ВЛ 110kV Близнак
Част: Електрическа и геология
Документ: Приложение №3
Заглавие: Количества стълбове - арматури, вериги, изкопи и бетон

стълб №	тип на стълба	стомана стълб, t	болтове стълб, kg	стомана в основата, kg	проектен изкоп, m ³	проектна обратна записка, m ³	проектно за разхвърляне, m ³	кофраж за фундаменти, m ²	тип фундамент	подложен бетон, m ³	бетон фундамент, m ³	стар стълб в стълбата, №	наличен изкоп от премахнат стълб, m ³	реален изкоп за CPC, m ³	количество земя маса при стълба, m ³	реална обратна заплата, m ³	реално разхвърляне почва, m ³	реално доставка почва, m ³	Тип заземител	ЕН верига, к-т	ЕО верига, к-т	ЕН верига за мост, к-т	мостова връзка, бр.	опъвателно окачване С-70, к-т	носецо окачване OPGW A20SA 66, к-т	опъвателно окачване OPGW A20SA 66, к-т	кутия OPGW, бр.	фиксиращи клеми за OPGW, бр.
194	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	209	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
195	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	210	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
196	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	211	36.61	44.51	69.29	57.16	12.13	---	2K	---	6	---	3	---	---	2	1	16
197	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
198	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	213	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
199	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
200	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
201	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
202	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
203	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	219	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
204	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	2K	3	---	---	---	---	1	---	---	---
205	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	221	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
206	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	222	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
207	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	223	35.10	46.02	75.57	57.16	18.41	---	2K	---	6	---	3	---	---	2	1	16
208	НБ 220 -3	9.908	575.228	1 090.42	167.94	120.48	47.46	23.80	Ф19	4.10	43.36	226	7.40	160.54	164.99	120.48	44.51	---	2K	3	---	---	---	---	1	---	---	---
209	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	228	7.40	86.68	91.13	65.07	26.06	---	2K	3	---	---	---	---	1	---	---	---
210	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
211	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	231	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	---	1
212	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	232	30.23	63.85	66.81	65.07	1.74	---	Л	3	---	---	---	---	1	---	---	---
213	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	234	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
214	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	235	30.23	63.85	66.81	65.07	1.74	---	Л	3	---	---	---	---	1	---	---	---
215	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	236	30.23	63.85	66.81	65.07	1.74	---	Л	3	---	---	---	---	1	---	---	---
216	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
217	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	238	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
218	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	239	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
219	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	240	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
220	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	242	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
221	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	243	7.40	73.72	78.17	57.16	21.01	---	Л	---	6	---	3	---	---	2	1	16
222	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
223	CH.13.D	3.798	253.540	314.07	69.12	49.45	19.67	12.38	Ф5	2.30	17.37	247	30.23	38.89	41.85	49.45	---	7.60	Л	3	---	---	---	---	1	---	---	---
224	CH.16.D	4.376	287.120	314.07	69.12	49.45	19.67	12.38	Ф5	2.30	17.37	---	---	69.12	69.12	49.45	19.67	---	Л	3	---	---	---	---	1	---	---	---
225	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	250	30.23	63.85	66.81	65.07	1.74	---	Л	3	---	---	---	---	1	---	---	---
226	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
227	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
228	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
229	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
230	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
231	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
232	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	259	7.40	73.72	78.17	57.16	21.01	---	Л	---	6	---	3	---	---	2	1	16
233	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
234	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	262	7.40	86.68	91.13	65.07	26.06	---	Л	3	---	---	---	---	1	---	---	---
235	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
236	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
237	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
238	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	267	30.23	50.89	53.85	57.16	---	3.31	Л	---	6	---	3	---	---	2	1	16
239	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
240	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	269	36.61	57.47	82.25	65.07	17.18	---	Л	3	---	---	---	---	1	---	---	---
241	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
242	H.16.D	3.535	229.620	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	---	---	94.08	94.08	65.07	29.01	---	Л	3	---	---	---	---	1	---	---	---
243	H.13.D	3.107	201.780	255.37	94.08	65.07	29.01	14.66	Ф7 = ГФ1	3.14	25.88	272	7.40	86.68	91.13	65.07	26.06											

Обект: Реконструкция на ВЛ 110kV Близнак
Част: Електрическа и геология
Документ: Приложение №3
Заглавие: Количества стълбове - арматури, вериги, изкопи и бетон

стълб №	тип на стълба	стомана стълб, t	болтове стълб, kg	стомана в основата, kg	проектен изкоп, m ³	проектна обратна записка, m ³	проектно за разхвърляне, m ³	кофраж за фундаменти, m ²	тип фундамент	подложен бетон, m ³	бетон фундамент, m ³	стар стълб в стълбата, №	наличен изкоп от премахнат стълб, m ³	реален изкоп за СРС, m ³	количество земна маса при стълба, m ³	реална обратна записка, m ³	реално разхвърляне почва, m ³	реално доставка почва, m ³	Тип заземятел	ЕН верига, к-т	ЕО верига, к-т	ЕН верига за мост, к-т	мостова връзка, бр.	опъвателно окачване С-70, к-т	носещо окачване OPGW A20SA 66, к-т	опъвателно окачване OPGW A20SA 66, к-т	кутия OPGW, бр.	фиксиращи клеми за OPGW, бр.
291	30.13.D	5.341	353.690	454.48	81.12	57.16	23.96	13.46	Ф6	2.70	21.26	325	36.61	44.51	69.29	57.16	12.13	---	Л	---	6	---	3	---	---	2	---	1
292	60.19.D-отв.к.	8.605	655.030	487.03	138.72	89.36	49.36	18.98	Ф10	4.62	44.73	---	---	138.72	138.72	89.36	49.36	---	Л	---	6	3	3	1	---	2	---	1
портал	Босна	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Л	---	3	---	---	1	---	1	1	16
Суми с готови ф-ти:		1 058.64	69 182.10	13 657.44	---	---	---	435.02	---	89.90	737.32	---	---	1 998.68	2 418.28	1 869.90	565.90	17.53	193	792	174	3	84	4	264	58	23	359
Суми с монолитни ф-ти:		1 058.64	69 182.10	74 812.21	---	---	---	4 264.50	---	907.18	7 500.56	---	---	23 623.69	0.00	18 897.89	6 724.88	17.53	99	792	174	3	84	4	264	58	23	359