

220KV Dahej Haldarwa line-2 ACSR Zebra to HTLS conversion under Jurisdiction of 220KV Dahej SS																		
Sr. no.	Tower No	S/C or D/C	Tower Type	Span Between Tower No.	Span Length	Section Span Length	Total SRI Required	220KV- Suspensi n SRI 90 kN	220KV tension SRI 120 kN	Single Suspensi on H/W for HTLS Zebra	Double Suspensi on H/W for HTLS Zebra	Single Tension H/W for HTLS Zebra	Double Tension H/W for HTLS Zebra	Vibration damper for HTLS Zebra	PA Armour rod for HTLS Zebra	Midspar joint for HTLS Zebra	Repair sleeve for HTLS Zebra	REMARKS
Haldarwa GANTRY		T					3	0	3	0	0	3	0	3	0	0	0	Long: 73.03213653 Lat:21.7524891
1	1	D/C	T	Tower No - 1	93	93	6	0	6	0	0	6	0	6	0	0	0	
2	2	D/C	T	1 - 2	269	269	9	0	9	0	0	3	3	6	0	0	0	Haldarwa Village Road Cross & Big drainage
3	3	D/C	T	2 - 3	238	238	9	0	9	0	0	3	3	6	0	0	0	
4	4	D/C	T	3 - 4	172	172	6	0	6	0	0	6	0	6	0	0	0	Small canal
5	5	D/C	S	4 - 5	329	659	3	3	0	3	0	0	0	6	3	0	0	
6	6	D/C	T	5 - 6	330		6	0	6	0	0	6	0	6	0	0	0	Small canal
7	7	D/C	DS	6 - 7	347		6	6	0	0	3	0	0	6	3	0	0	Haldarwa Highway Road Cross
8	8	D/C	DS	7 - 8	325		6	6	0	0	3	0	0	6	3	0	0	
9	9	D/C	S	8 - 9	370	1371	6	6	0	0	3	0	0	6	3	0	0	220kv Haldarwa-Wagra/Dahej line cross & Haldarwa-Luvra Road Cross
10	10	D/C	DT	9 - 10	329	807	12	3	9	3	0	3	3	6	0	0	0	66kv line cross
11	11	D/C	DS	10 - 11	147		6	6	0	0	3	0	0	6	3	0	0	
12	12	D/C	DS	11 - 12	321		6	6	0	0	3	0	0	6	3	0	0	Big Canal Cross
13	13	D/C	DT	12 - 13	339		12	3	9	3	0	3	3	6	0	0	0	
14	14	D/C	S	13 - 14	330	1278	3	3	0	3	0	0	0	6	3	0	0	
15	15	D/C	S	14 - 15	341		3	3	0	3	0	0	0	6	3	0	0	
16	16	D/C	S	15 - 16	219		6	6	0	0	3	0	0	6	3	0	0	Asuriya-Umra Road cross
17	17	D/C	DT	16 - 17	388		12	3	9	3	0	3	3	6	0	0	0	132kv Haldarwa-Karjan line cross & 66kv Haldrawa-Palej line cross
18	18	D/C	DT	17 - 18	134	134	12	3	9	3	0	3	3	6	0	0	0	
19	19	D/C	S	18 - 19	315	632	3	3	0	3	0	0	0	6	3	0	0	
20	20	D/C	DT	19 - 20	317		12	3	9	3	0	3	3	6	0	0	0	NH 48 Road cross
21	21	D/C	CDT	20 - 21	252		15	3	12	3	0	0	6	6	0	0	0	400KV line Cross
22	22	D/C	T	21 - 22	350		6	0	6	0	0	6	0	6	0	0	0	
23	23	D/C	S	22 - 23	308	575	3	3	0	3	0	0	0	6	3	0	0	
24	24	D/C	T	23 - 24	267		6	0	6	0	0	6	0	6	0	0	0	11kv line cross
25	25	D/C	DT	24 - 25	241		12	3	9	3	0	3	3	6	0	0	0	Railway cross B/W
26	26	D/C	DT	25 - 26	140		12	3	9	3	0	3	3	6	0	0	0	
27	27	D/C	S	26 - 27	334	859	3	3	0	3	0	0	0	6	3	0	0	
28	28	D/C	S	27 - 28	287		3	3	0	3	0	0	0	6	3	0	0	
29	29	D/C	T	28 - 29	238		9	3	6	3	0	6	0	6	0	0	0	
30	30	D/C	S	29 - 30	271		6	6	0	0	3	0	0	6	3	0	0	Haldar-Bori Raod cross
31	31	D/C	S	30 - 31	333	1302	6	6	0	0	3	0	0	6	3	0	0	
32	32	D/C	S	31 - 32	377		3	3	0	3	0	0	0	6	3	0	0	
33	33	D/C	CDT	32 - 33	321		15	3	12	3	0	0	6	6	0	0	0	11kv line cross & Hingalla-Dayadra road cross
34	34	D/C	DS	33 - 34	351	1704	6	6	0	0	3	0	0	6	3	0	0	
35	35	D/C	S	34 - 35	357		3	3	0	3	0	0	0	6	3	0	0	
36	36	D/C	DS	35 - 36	341		6	6	0	0	3	0	0	6	3	0	0	Hingalla-sitpon Road cross
37	37	D/C	DS	36 - 37	324		6	6	0	0	3	0	0	6	3	0	0	
38	38	D/C	T	37 - 38	331	290	9	3	6	3	0	6	0	6	0	0	0	
39	39	D/C	DT	38 - 39	290		12	3	9	3	0	3	3	6	0	0	0	220kv GPEC-Karamsad line cross
40	40	D/C	CDT	39 - 40	159		12	3	9	3	0	3	3	6	0	0	0	
41	41	D/C	DS	40 - 41	348		6	6	0	0	3	0	0	6	3	0	0	Priyej-Hingalla road cross
42	42	D/C	DS	41 - 42	241	1870	6	6	0	0	3	0	0	6	3	0	0	
43	43	D/C	S	42 - 43	337		3	3	0	3	0	0	0	6	3	0	0	
44	44	D/C	S	43 - 44	319		3	3	0	3	0	0	0	6	3	0	0	
45	45	D/C	S	44 - 45	313		3	3	0	3	0	0	0	6	3	0	0	
46	46	D/C	T	45 - 46	312	2681	6	0	6	0	0	6	0	6	0	0	0	
47	47	D/C	S	46 - 47	338		3	3	0	3	0	0	0	6	3	0	0	
48	48	D/C	S	47 - 48	356		3	3	0	3	0	0	0	6	3	0	0	
49	49	D/C	S	48 - 49	347		3	3	0	3	0	0	0	6	3	0	0	400KV GPEC-KASOR line cross
50	50	D/C	S	49 - 50	336		3	3	0	3	0	0	0	6	3	0	0	
51	51	D/C	S	50 - 51	282		3	3	0	3	0	0	0	6	3	0	0	
52	52	D/C	S	51 - 52	356		6	6	0	0	3	0	0	6	3	0	0	Road to tralsa village crossing
53	53	D/C	S	52 - 53	355		6	6	0	0	3	0	0	6	3	0	0	
54	54	D/C	T	53 - 54	311	208	12	0	12	0	0	0	6	6	0	0	0	Tralsa-dandipath road cross
55	55	D/C	DT	54 - 55	208		15	3	12	3	0	0	6	6	0	0	0	Railway cross
56	56	D/C	DT	55 - 56	185		12	3	9	3	0	3	3	6	0	0	0	
57	57	D/C	CDT	56 - 57	317		15	3	12	3	0	0	6	6	0	0	0	bullet train cross
58	58	D/C	DT	57 - 58	312	343	12	3	9	3	0	3	3	6	0	0	0	
59	59	D/C	T	58 - 59	343		6	0	6	0	0	6	0	6	0	0	0	
60	60	D/C	S	59 - 60	361		3	3	0	3	0	0	0	6	3	0	0	
61	61	D/C	T	60 - 61	343		6	0	6	0	0	6	0	6	0	0	0	
62	62	D/C	DT	61 - 62	300	300	12	3	9	3	0	3	3	6	0	0	0	mumbai-vadodara Express highway crossing
63	63	D/C	DT	62 - 63	345	345	12	3	9	3	0	3	3	6	0	0	0	
64	64	D/C	T	63 - 64	362	362	6	0	6	0	0	6	0	6	0	0	0	
65	65	D/C	DT	64 - 65	300	300	12	3	9	3	0	3	3	6	0	0	0	jambusar road cross
66	66	D/C	DT	65 - 66	347	347	12	3	9	3	0	3	3	6	0	0	0	765KV Ahmedabad-Navsari line crossing
67	67	D/C	S	66 - 67	324		3	3	0	3	0	0	0	6	3	0	0	
68	68	D/C	S	67 - 68	327		3	3	0	3	0	0	0	6	3	0	0	
69	69	D/C	S	68 - 69	373		3	3	0	3	0	0	0	6	3	0	0	
70	70	D/C	S	69 - 70	336		6	6	0	0	3	0	0	6	3	0	0	bhukhi khadi crossing
71	71	D/C	S	70 - 71	342	3432	6	6	0	0	3	0	0	6	3	0	0	
72	72	D/C	S	71 - 72	363		3	3	0	3	0	0	0	6	3	0	0	
73	73	D/C	S	72 - 73	334		3	3	0	3	0	0	0	6	3	0	0	small canal crossing B
74	74	D/C	S	73 - 74	346		3	3	0	3	0	0	0	6	3	0	0	
75	75	D/C	S	74 - 75	355		3	3	0	3	0	0	0	6	3	0	0	66kv Vagra-Nandelav cross
76	76	D/C	T	75 - 76	332		6	0	6	0	0	6	0	6	0	0	0	
77	77	D/C	DS	76 - 77	336		6	6	0	0	3	0	0	6	3	0	0	Derol-vagra road crossing
78	78	D/C	DS	77 - 78	346		6	6	0	0	3	0	0	6	3	0	0	small canal crossing
79	79	D/C	S	78 - 79	343		3	3	0	3	0	0	0	6	3	0	0	
80	80	D/C	S	79 - 80	348		3	3	0	3	0	0	0	6	3	0	0	

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102	102	D/C	S	98 - 99	336	2776	3	3	0	3	0	0	0	6	3	0	0	Saykha GIDC road
103	103	D/C	S	99 - 100	350		3	3	0	3	0	0	0	6	3	0	0	
104	104	D/C	S	100 - 101	345		3	3	0	3	0	0	0	6	3	0	0	
105	105	D/C	T	101 - 102	317		6	0	6	0	0	6	0	6	0	0	0	
106	106	D/C	S	102 - 103	297		3	3	0	3	0	0	0	6	3	0	0	
107	107	D/C	S	103 - 104	351		3	3	0	3	0	0	0	6	3	0	0	
108	108	D/C	S	104 - 105	352		3	3	0	3	0	0	0	6	3	0	0	
109	109	D/C	S	105 - 106	353		6	6	0	0	3	0	0	6	3	0	0	
110	110	D/C	S	106 - 107	357		6	6	0	0	3	0	0	6	3	0	0	
111	111	D/C	S	107 - 108	352		3	3	0	3	0	0	0	6	3	0	0	
112	112	D/C	S	108 - 109	352	2480	3	3	0	3	0	0	0	6	3	0	0	
113	113	D/C	T	109 - 110	362		6	0	6	0	0	6	0	6	0	0	0	
114	114	D/C	S	110 - 111	357		3	3	0	3	0	0	0	6	3	0	0	
115	115	D/C	S	111 - 112	355		3	3	0	3	0	0	0	6	3	0	0	
116	116	D/C	S	112 - 113	365		3	3	0	3	0	0	0	6	3	0	0	
117	117	D/C	S	113 - 114	330		3	3	0	3	0	0	0	6	3	0	0	
118	118	D/C	S	114 - 115	358		3	3	0	3	0	0	0	6	3	0	0	
119	119	D/C	S	115 - 116	360		3	3	0	3	0	0	0	6	3	0	0	
120	120	D/C	T	116 - 117	355		6	0	6	0	0	6	0	6	0	0	0	
121	121	D/C	S	117 - 118	338		3	3	0	3	0	0	0	6	3	0	0	
122	122	D/C	S	118 - 119	359	2758	3	3	0	3	0	0	0	6	3	0	0	
123	123	D/C	S	119 - 120	350		3	3	0	3	0	0	0	6	3	0	0	
124	124	D/C	S	120 - 121	345		3	3	0	3	0	0	0	6	3	0	0	
125	125	D/C	S	121 - 122	240		3	3	0	3	0	0	0	6	3	0	0	
126	126	D/C	S	122 - 123	222		3	3	0	3	0	0	0	6	3	0	0	
127	127	D/C	S	123 - 124	226		3	3	0	3	0	0	0	6	3	0	0	
128	128	D/C	S	124 - 125	342		3	3	0	3	0	0	0	6	3	0	0	
129	129	D/C	T	125 - 126	336		9	0	9	0	0	3	3	6	0	0	0	
130	130	D/C	S	126 - 127	348		6	6	0	0	3	0	0	6	3	0	0	
131	131	D/C	S	127 - 128	320	3038	3	3	0	3	0	0	0	6	3	0	0	Khojbal - Nandeda road
132	132	D/C	S	128 - 129	327		3	3	0	3	0	0	0	6	3	0	0	
133	133	D/C	S	129 - 130	351		3	3	0	3	0	0	0	6	3	0	0	
134	134	D/C	S	130 - 131	346		3	3	0	3	0	0	0	6	3	0	0	
135	135	D/C	S	131 - 132	342		3	3	0	3	0	0	0	6	3	0	0	
136	136	D/C	S	132 - 133	334		3	3	0	3	0	0	0	6	3	0	0	
137	137	D/C	S	133 - 134	332		3	3	0	3	0	0	0	6	3	0	0	
138	138	D/C	T	134 - 135	338		6	0	6	0	0	6	0	6	0	0	0	
139	139	D/C	S	135 - 136	351		3	3	0	3	0	0	0	6	3	0	0	
140	140	D/C	S	136 - 137	352		6	6	0	0	3	0	0	6	3	0	0	
141	141	D/C	S	137 - 138	369	3102	6	6	0	0	3	3	0	6	3	0	0	Atali Akhod road
142	142	D/C	S	138 - 139	329		3	3	0	3	0	0	0	6	3	0	0	
143	143	D/C	S	139 - 140	328		3	3	0	3	0	0	0	6	3	0	0	
144	144	D/C	S	140 - 141	340		3	3	0	3	0	0	0	6	3	0	0	
145	145	D/C	S	141 - 142	343		3	3	0	3	0	0	0	6	3	0	0	
146	146	D/C	S	142 - 143	335		3	3	0	3	0	0	0	6	3	0	0	
147	147	D/C	T	143 - 144	345		6	0	6	0	0	6	0	6	0	0	0	
148	148	D/C	S	144 - 145	350		3	3	0	3	0	0	0	6	3	0	0	
149	149	D/C	S	145 - 146	334		3	3	0	3	0	0	0	6	3	0	0	
150	150	D/C	S	146 - 147	357		3	3	0	3	0	0	0	6	3	0	0	
151	151	D/C	S	147 - 148	349	2377	3	3	0	3	0	0	0	6	3	0	0	
152	152	D/C	DS	148 - 149	338		6	6	0	0	3	0	0	6	6	0	0	
153	153	D/C	DS	149 - 150	369		6	6	0	0	3	0	0	6	6	0	0	
154	154	D/C	T	150 - 151	280		9	0	9	0	0	3	3	6	0	0	0	
155	155	D/C	T	151 - 152	364		364	9	0	9	0	0	3	3	6	0	0	
156	156	M/C	T	152 - 153	233		233	6	0	6	0	0	6	6	0	0	0	
157	157	M/C	T	153 - 154	337		337	6	0	6	0	0	6	6	0	0	0	
158	158	M/C	T	154 - 155	111		111	6	0	6	0	0	6	6	0	0	0	
159	159	M/C	T	155 - 156	235		235	9	0	9	0	0	3	3	6	0	0	
160	160	M/C	T	156 - 157	237		237	9	0	9	0	0	3	3	6	0	0	
161	161	M/C	T	157 - 158	280	843	280	6	0	6	0	0	6	6	0	0	0	
162	162	D/C	S	158 - 159	267		3	3	0	3	0	0	0	6	3	0	0	
163	163	D/C	S	159 - 160	300		3	3	0	3	0	0	0	6	3	0	0	
164	164	D/C	T	160 - 161	276		6	0	6	0	0	6	0	6	0	0	0	
165	165	M/C	T	161 - 162	290		290	6	0	6	0	0	6	6	0	0	0	
166	166	M/C	T	162 - 163	322		322	6	0	6	0	0	6	6	0	0	0	
167	167	D/C	DT	163 - 164	157		157	9	0	9	0	0	3	3	6	0	0	
168	168	D/C	DT	164 - 165	337		337	9	0	9	0	0	3	3	6	0	0	
169	169	M/C	T	165 - 166	173		173	6	0	6	0	0	6	6	0	0	0	
170	170	D/C	S	166 - 167	245		430	3	3	0	3	0	0	6	3	0	0	
171	171	M/C	T	167 - 168	185	510	185	6	0	6	0	0	6	6	0	0	0	SEZ-1 near OPAL road cross
172	172	M/C	T	168 - 169	321		321	9	0	9	0	0	3	3	6	0	0	
173	173	M/C	T	169 - 170	345		345	12	3	9	3	0	3	3	6	0	0	
174	174	D/C	T	170 - 171	157		157	6	0	6	0	0	6	6	0	0	0	
175	175	D/C	S	171 - 172	250		3	3	0	3	0	0	0	6	3	0	0	
176	176	D/C	T	172 - 173	260		6	0	6	0	0	6	0	6	0	0	0	
177	177	D/C	DS	173 - 174	265		6	6	0	0	3	0	0	6	3	0	0	
178	178	D/C	DS	174 - 175	140		761	6	6	0	0	3	0	6	3	0	0	
179	179	D/C	T	175 - 176	356		6	0	6	0	0	6	0	6	0	0	0	
180	180	D/C	S	176 - 177	346	1200	3	3	0	3	0	0	0	6	3	0	0	Road cross in SEZ-1
181	181	D/C	S	177 - 178	296		3	3	0	3	0	0	0	6	3	0	0	
182	182	D/C	S	178 - 179	282		6	6	0	0	3	0	0	6	3	0	0	
183	183	D/C	DT	179 - 180	276		9	0	9	0	0	3	3	6	0	0	0	
184	184	D/C	DT	180 - 181	237		237	9	0	9	0	0	3	3	6	0	0	
185	185	D/C	T	181 - 182	215		215	9	0	9	0	0	3	3	6	0	0	
186	186	D/C	DT	182 - 183	221		221	9	0	9	0	0	3	3	6	0	0	
187	187	D/C	DT	183 - 184	100		100	9	0	9	0	0	3	3	6	0	0	
188	188	D/C	S	184 - 185	345		695	3	3	0	3	0	0	6	3	0	0	
189	189	D/C	T	185 - 186	350		6	0	6	0	0	6	0	6	0	0	0</	