

Exi. 66kV S/C line from 66kv Khanpur - Bahiyal - 01 Line on 66kV D/C Dog Tower with HTLS Conductor																		
Tower Schedule																		
Sr. No.	Exi. Loc.No.	Deviation Angle	Type Of Tower	Span	Section	Hardware Calculation Suitable for HTLS												
				(In Mtr.)		Single Suspension	Single Tension	Double suspension	Double Tension	Suspension SRI	Tension SRI	No Vibration Dampers	Mid Span Joint	Repair sleeve	PA Rod	T connector with pad	Terminal without hole with	Remarks / Crossing Details
0	Exi.220kV Khanpur S.S.	00°0'00"	Gantry		0		3				3	3				3	6	
				47														
1	Exi.Loc.01	6°44'10"RT	DS+0		47		6				6	6						
				109														
2	Exi.Loc.02	15°39'9"RT	B TYPE DP		109		6				6	6						
				79														
3	Exi.Loc.03	29°27'42"LT	B TYPE DP		79		6				6	6						
				148														
4	Exi.Loc.04	24°5'19"RT	B TYPE DP		148		6				6	6						
				115														Exi.66kv D/C Khanpur - Chiskari Line
5	Exi.Loc.05	16°8'56"RT	B TYPE DP		115		6				6	6						
				162														Cart Track
6	Exi.Loc.06	29°23'35"RT	B TYPE DP		162		6				6	6						
				156														
7	Exi.Loc.07	13°52'11"LT	B TYPE DP		156		6				6	6						
				161														Lt Line & 11kv Line
8	Exi.Loc.08		A TYPE DP			3				3		6			3			
				209														
9	Exi.Loc.09		A TYPE DP			3				3		6			3			
				137														
10	Exi.Loc.10		A TYPE DP			3				3		6			3			
				168														Cart Track
11	Exi.Loc.11		A TYPE DP			3				3		6			3			
				140														11kv Line
12	Exi.Loc.12		A TYPE DP			3				3		6			3			
				123														11kv Line
13	Exi.Loc.13		A TYPE DP			3				3		6			3			
				142														
14	Exi.Loc.14		A TYPE DP			3				3		6			3			
				157														
15	Exi.Loc.15		A TYPE DP			3				3		6			3			
				175														11kv Line
16	Exi.Loc.16	13°58'22"RT	B TYPE DP		1412		6				6	6						
				180														
17	Exi.Loc.17		A TYPE DP			3				3		6			3			
				161														
18	Exi.Loc.18		A TYPE DP			3				3		6			3			
				168														Cart Track & 11kv Line
19	Exi.Loc.19		A TYPE DP			3				3		6			3			
				168														Tar Road & 11kv Line 2 Nos.
20	Exi.Loc.20		A TYPE DP			3				3		6			3			
				131														Tar Road & Lt Line
21	Exi.Loc.21		A TYPE DP			3				3		6			3			
				162														
22	Exi.Loc.22		A TYPE DP			3				3		6			3			
				174														11kv Line
23	Exi.Loc.23	14°59'9"LT	B TYPE DP		1144		6				6	6						
				88														Tar Road
24	Exi.Loc.24		A TYPE DP			3				3		6			3			
				121														Cart Track
25	Exi.Loc.25		A TYPE DP			3				3		6			3			
				147														Nala & 11kv Line
26	Exi.Loc.26		A TYPE DP			3				3		6			3			
				150														11kv Line
27	Exi.Loc.27		A TYPE DP			3				3		6			3			
				140														Tar Road , Lt Line & 11kv Line
28	Exi.Loc.28		A TYPE DP			3				3		6			3			

Exi. 66kV S/C line from 66kv Khanpur - Bahiyal - 01 Line on 66kV D/C Dog Tower with HTLS Conductor																		
Tower Schedule																		
Sr. No	Exi. Loc.No.	Deviation Angle	Type Of Tower	Span	Section	Hardware Calculation Suitable for HTLS												
				(In Mtr.)	n	Single Suspension	Single Tension	Double suspension	Double Tension	Suspension SRI	Tension SRI	No Vibration Dampers	Mid Span Joint	Repair sleeve	PA Rod	T connector with pad	Terminal without hole with	Remarks / Crossing Details
				134														
29	Exi.Loc.29		A TYPE DP			3				3		6			3			
				146														Exi.220kv D/C Khanpur - Kapadvanj Line
30	Exi.Loc.30		A TYPE DP			3				3		6			3			
				149														
31	Exi.Loc.31		A TYPE DP			3				3		6			3			
				160														
32	Exi.Loc.32		A TYPE DP					3		6		6			3			
				88														SH-69 ROAD
33	Exi.Loc.33	2°47'16"RT	B TYPE DP		1323				6		12	6						
				147														Exi.66kv D/C Khanpur - Bahival Line & 11kv Line 3 Nos.
34	Exi.Loc.34		A TYPE DP			3				3		6			3			
				168														Cart Track
35	Exi.Loc.35		A TYPE DP			3				3		6			3			
				166														Tar Road
36	Exi.Loc.36		A TYPE DP			3				3		6			3			
				138														11kv Line
37	Exi.Loc.37		A TYPE DP			3				3		6			3			
				182														Exi.66kv D/C Khanpur - Bahiyal Line
38	Exi.Loc.38		A TYPE DP			3				3		6			3			
				163														
39	Exi.Loc.39	7°36'11"RT	B TYPE DP		964		6				6	6						
				142														
40	Exi.Loc.40		A TYPE DP			3				3		6			3			
				155														
41	Exi.Loc.41		A TYPE DP			3				3		6			3			
				175														
42	Exi.Loc.42		A TYPE DP			3				3		6			3			
				168														
43	Exi.Loc.43		A TYPE DP			3				3		6			3			
				149														11kv Line
44	Exi.Loc.44		A TYPE DP			3				3		6			3			
				161														
45	Exi.Loc.45		A TYPE DP			3				3		6			3			
				146														
46	Exi.Loc.46		A TYPE DP			3				3		6			3			
				157														Cart Track
47	Exi.Loc.47		A TYPE DP			3				3		6			3			
				168														
48	Exi.Loc.48	15°26'9"LT	B TYPE DP		1421		6				6	6						
				192														Exi.400kv D/C Vanakbori - Dehgam Line
49	Exi.Loc.49	0°27'39"RT	B TYPE DP		192		6				6	6						
				176														
50	Exi.Loc.50		A TYPE DP			3				3		6			3			
				159														
51	Exi.Loc.51		A TYPE DP			3				3		6			3			
				151														Lt Line
52	Exi.Loc.52		A TYPE DP			3				3		6			3			
				184														Cart Track & Exi.400kv D/C NGD - Dehgam Line
53	Exi.Loc.53		A TYPE DP			3				3		6			3			
				179														
54	Exi.Loc.54		A TYPE DP			3				3		6			3			
				208														11kv Line
55	Exi.Loc.55		A TYPE DP			3				3		6			3			
				139														
56	Exi.Loc.56	27°20'52"RT	B TYPE DP		1196		6				6	6						

Exi. 66kV S/C line from 66kv Khanpur - Bahiyal - 01 Line on 66kV D/C Dog Tower with HTLS Conductor																		
Tower Schedule																		
Sr. No	Exi. Loc.No.	Deviation Angle	Type Of Tower	Span	Section	Hardware Calculation Suitable for HTLS												
				(In Mtr.)	n	Single Suspension	Single Tension	Double suspension	Double Tension	Suspension SRI	Tension SRI	No Vibration Dampers	Mid Span Joint	Repair sleeve	PA Rod	T connector with pad	Terminal without hole with	Remarks / Crossing Details
				161														Exi.400kv D/C Vanakbori - Dehgam Line & Tar Road &
57	Exi.Loc.57		A TYPE DP			3				3		6			3			
				107														Tar Road
58	Exi.Loc.58	23°25'1"RT	B TYPE DP		268		6				6	6						
				160														Lt Line
59	Exi.Loc.59		A TYPE DP			3				3		6			3			
				171														
60	Exi.Loc.60		A TYPE DP			3				3		6			3			
				152														11kv Line & Lt Line
61	Exi.Loc.61	29°11'50"LT	B TYPE DP		483		6				6	6						
				154														Cart Track
62	Exi.Loc.62		A TYPE DP					3		6		6			3			
				156														Tar Road , Cart Track & 11kv Line
63	Exi.Loc.63		A TYPE DP					3		6		6			3			
				168														Lt Line
64	Exi.Loc.64		A TYPE DP			3				3		6			3			
				197														Cart Track & 11kv Line
65	Exi.Loc.65	9°57'11"LT	B TYPE DP		675		6				6	6						
				170														
66	Exi.Loc.66		A TYPE DP			3				3		6			3			
				174														Cart Track & Tar Road
67	Exi.Loc.67		A TYPE DP			3				3		6			3			
				92														11kv Line 2 Nos.
68	Exi.Loc.68	18°27'2"LT	B TYPE DP		436				6		12	6						
				150														Tar Road & 11kv Line
69	Exi.Loc.69	40°41'43"LT	B TYPE DP		150				6		12	6						
				186														Mini Canal
70	Exi.Loc.70		A TYPE DP					3		6		6			3			
				117														Cart Track & 11kv Line
71	Exi.Loc.71		A TYPE DP					3		6		6			3			
				155														Cart Track
72	Exi.Loc.72		A TYPE DP			3				3		6			3			
				143														
73	Exi.Loc.73		A TYPE DP			3				3		6			3			
				156														
74	Exi.Loc.74	29°48'54"LT	B TYPE DP		757		6				6	6						
				154														Cart Track & 11kv Line
75	Exi.Loc.75		A TYPE DP			3				3		6			3			
				156														
76	Exi.Loc.76	16°14'30"LT	B TYPE DP		310		6				6	6						
				193														
77	Exi.Loc.77		A TYPE DP			3				3		6			3			
				159														Lt Line & Cart Track
78	Exi.Loc.78	1°48'4"RT	B TYPE DP		352				6		12	6						
				169														SH-141 ROAD & 11kv Line
79	Exi.Loc.79	8°10'41"LT	DQ+3		169				6		12	6						
				337														Meshuvo River & 11kv Line
80	Exi.Loc.80		DP+0					3		6		6			3			
				68														
81	Exi.Loc.81	20°54'55"RT	B TYPE DP		405		6				6	6						
				139														
82	Exi.Loc.82		A TYPE DP			3				3		6			3			
				177			6				6	6						Nala
83	Exi.Loc.83	13°0'28"LT	B TYPE DP		316													
				165														
84	Exi.Loc.84		A TYPE DP			3				3		6			3			
				164														Cart Track
85	Exi.Loc.85		A TYPE DP			3				3		6			3			
				174														
86	Exi.Loc.86		A TYPE DP			3				3		6			3			
				85														Cart Track & 11kv Line
87	Exi.Loc.87	8°3'36"LT	B TYPE DP		588		6				6	6						
				218														11kv Line
88	Exi.Loc.88		A TYPE DP			3				3		6			3			
				134														
89	Exi.Loc.89		A TYPE DP			3				3		6			3			
				172														Cart Track
90	Exi.Loc.90		A TYPE DP			3				3		6			3			
				152														
91	Exi.Loc.91		A TYPE DP			3				3		6			3			
				176														
92	Exi.Loc.92	12°59'58"LT	B TYPE DP		852		6				6	6						

<p>Exi. 66kV S/C line from 66kv Khanpur - Bahiyal - 01 Line on 66kV D/C Dog Tower with HTLS Conductor</p>
--

Sr. No .	Exi. Loc.No.	Deviation Angle	Type Of Tower	Span	Section	Tower Schedule													Remarks / Crossing Details
						Hardware Calculation Suitable for HTLS													
				(In Mtr.)	Single Suspension	Single Tension	Double suspension	Double Tension	Suspension SRI	Tension SRI	No Vibration Dampers	Mid Span Joint	Repair sleeve	PA Rod	T connector with pad	Terminal without hole with			
93	Exi.Loc.93	16°54'46"RT	B TYPE DP	189	189		6				6	6						Tar Road	
94	Exi.Loc.94		A TYPE DP	176		3				3	6			3				11kv Line	
95	Exi.Loc.95		A TYPE DP	176		3				3	6			3				Cart Track & 11kv Line	
96	Exi.Loc.96		A TYPE DP	171		3				3	6			3					
97	Exi.Loc.97		A TYPE DP	151		3				3	6			3				Tar Road	
98	Exi.Loc.98	10°12'52"LT	B TYPE DP	176	850		6				6	6							
99	Exi.Loc.99		A TYPE DP	176		3				3	6			3					
##	Exi.Loc.100		A TYPE DP	156		3				3	6			3				Cart Track & 11kv Line	
##	Exi.Loc.101		A TYPE DP	164		3				3	6			3				11kv Line	
##	Exi.Loc.102		A TYPE DP	187		3				3	6			3					
##	Exi.Loc.103	9°59'30"LT	B TYPE DP	157	840		6				6	6						Cart Track	
##	Exi.Loc.104	23°44'35"RT	B TYPE DP	156	156		6				6	6						11kv Line & Cart Track	
##	Exi.Loc.105		DP+0	100				3		6	6			3					
##	Exi.Loc.106		DP+0	231				3		6	6			3				Main Canal & Tar Road	
##	Exi.Loc.107	25°36'9"LT	B TYPE DP	84	415		6				6	6							
##	Exi.Loc.108		A TYPE DP	124		3				3	6			3				11kv Line	
##	Exi.Loc.109		A TYPE DP	165		3				3	6			3					
##	Exi.Loc.110		A TYPE DP	156		3				3	6			3				11kv Line	
##	Exi.Loc.111		A TYPE DP	131		3				3	6			3				Canal , Cart Track & 11kv Line	
##	Exi.Loc.112		A TYPE DP	90		3				3	6			3				Cart Track	
##	Exi.Loc.113		A TYPE DP	134		3				3	6			3				11kv Line	
##	Exi.Loc.114	29°23'13"LT	B TYPE DP	165	965		6				6	6							
##	Exi.Loc.115		A TYPE DP	180		3				3	6			3				Cart Track	
##	Exi.Loc.116		A TYPE DP	165		3				3	6			3				Cart Track & 11kv Line 2 Nos.	
##	Exi.Loc.117	15°17'17"LT	B TYPE DP	86	431		6				6	6						Tar Road & 11kv Line 2 Nos.	
##	Exi.Loc.118	61°43'54"LT	Single Pole	50	50		6				6	6							
0	Exi.66kV Bahiyal S.S.	00°0'00"	Gantry	35	35		3				3	3	12	12		3	6		
				18160			225	186	24	30	273	246	714	12	12	249	6	12	Remarks / Crossing Details
							Single Suspension	Single Tension	Double suspension	Double Tension	Suspension SRI	Tension SRI	No Vibration Dampers	Mid Span Joint	Repair sleeve	PA Rod	T connector with pad	Terminal without hole with	
							Additional Quantities	10	10	3	3	10	6		6				
							Final Quantities	235	196	27	33	283	246	720	12	12	255	6	12