Tower Schedule of 66kV Vartej-Kharakdi line

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Damper	Mid Span joint	Repair sleeve	T Clamp HTLS to Zebra	Press type palm Connector for HTLS W/O Hole	Crossing Details
	Gantry at 220kV Vartej SS					Dog	T	3	0	3	0	0	3	0	0	3	0	0	3	6	
		34.1																			
	T001		34.1	C-Pole	D	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		76.9																			11kV line cross
	T002		76.9	H-Frame	C	Dog	DT(Kharakdi Side), T(Vartej Side)	9	0	9	0	0	3	3	0	6	0	0	0	0	
		164.9																			Company cross, Vartej Budhel road cross, Vartej rough road cross
	T003		164.9	H-Frame	D	Dog	DT(Vartej Side), T(Kharakdi Side)	12	0	12	0	0	0	6	0	6	0	0	0	0	
		94.4																			**66kV D/C tower lines cross**, LT line cross, Vartej rough road cross, **Temple cross**
	T004			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		124.8																			**Aanganwadi cross, Temple cross**
	T005		219.2	H-Frame	C	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		153.4																			Agriculture area rough road cross
	T006			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		156.1																			11kV line cross, Agriculture area rough road cross
	T007			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		183.3																			
	T008		492.8	H-Frame	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		182.3																			
	T009			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		131																			**Vartej-Fariyadka road cross**
	T010			H-Frame	A	Dog	DS	6	6	0	0	3	0	0	3	6	0	0	0	0	
		169.2																			**Temple cross, Canal cross**, Vartej rough road cross
	T011			H-Frame	A	Dog	DS	6	6	0	0	3	0	0	3	6	0	0	0	0	
		168.2																			Agriculture area rough road cross
	T012		650.7	H-Frame	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		174.1																			11kV line cross
	T013			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		215.9																			**Vartej-Sodvadra road cross**, 11kV line cross, **Drain cross**
	T014			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		78.2																			Agriculture area rough road cross
	T015			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		128.7																			Agriculture area rough road cross
	T016			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		174.1																			Agriculture area rough road cross
	T017			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		212.3																			Agriculture area rough road cross, 11kV line cross
	T018			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		211.5																			Agriculture area rough road cross, 11kV line cross
	T019			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		213.5																			Agriculture area rough road cross, 11kV line cross
	T020			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		212.7																			**Drain cross**, 11kV line cross
	T021		1621	H-Frame	C	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		191																			Agriculture area rough road cross
	T022			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		209.3																			
	T023			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		216.1																			Agriculture area rough road cross, 11kV line cross
	T024			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		192																			
	T025			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		233.4																			Agriculture area rough road cross, 11kV line cross
	T026			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Damper	Mid Span joint	Repair sleeve	T Clamp HTLS to Zebra	Press type palm Connector for HTLS W/O Hole	Crossing Details
		187.9																			**220kV line cross**, 11kV line cross, Agriculture area rough road cross
	T027			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		101.2																			**Navagam Sodvadra road cross**, 11kV line cross
	T028			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		111.2																			
	T029		1442.1	H-Frame	B	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		198																			Agriculture area rough road cross, 11kV line cross, **Canal cross**
	T030			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		194																			Agriculture area rough road cross
	T031			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		204.5																			**Canal cross**
	T032			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		207.2																			
	T033			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		205.8																			**Canal cross**
	T034			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		192.7																			
	T035		1202.2	H-Frame	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		172.8																			
	T036			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		219.1																			
	T037			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		213.9																			Agriculture area rough road cross
	T038			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		203.2																			
	T039			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		235																			
	T040			H-Frame	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		202.1																			
	T041			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		204.7																			**Canal cross**
	T042			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		127.5																			
	T043			H-Frame	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		187.2																			**Navagam Jaliya road cross**, 11kV line cross
	T044		1765.5	H-Frame	C	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		230.4																			**Factory road cross**, 11kV line cross
	T045		230.4	D/C Tower	D	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	**LILO Tower of 66kV Vartej-Kharakdi line & 66kV Kharakdi-Sar Line**
		145.5																			**Jaliya village road cross, Canal cross, Drain cross**, 11kV line cross
	T046		145.5	H-Frame	C	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		174.3																			**Canal cross, 220kV line cross**
	T047		174.3	H-Frame	C	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		166.2																			**Canal cross**
	T048		166.2	H-Frame	B	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		165.6																			**220kV line cross**, Agriculture road cross
	T049		165.6	H-Frame	C	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		197.7																			
	T050		197.7	D/C Tower	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		140.1																			Agriculture area rough road cross
	T051			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Damper	Mid Span joint	Repair sleeve	T Clamp HTLS to Zebra	Press type palm Connector for HTLS W/O Hole	Crossing Details
		307.8																			
	T052			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		222.2																			**Jaliya Sodvadra RCC road cross**, 11kV line cross, Agriculture area rough road cross
	T053			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		267.3																			Agriculture area rough road cross
	T054		937.4	D/C Tower	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		195.8																			
	T055			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		235.6																			**Jaliya Bhikda road cross**
	T056			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		264.8																			**Drain cross**
	T057			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		171																			11kV line cross, **Canal cross**
	T058		867.2	D/C Tower	C	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		283.7																			11kV line cross, Agriculture area rough road cross
	T059		283.7	D/C Tower	B	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		292.8																			**Jaliya village road cross**
	T060		292.8	D/C Tower	C	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		256.1																			**Jaliya village road cross**, 11kV line cross, **Canal cross**
	T061		256.1	D/C Tower	C	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		245.5																			**Canal cross**, Agriculture area rough road cross
	T062			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		161.8																			Agriculture area rough road cross
	T063			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		234.9																			
	T064		642.2	D/C Tower	B	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		264																			Agriculture area rough road cross, 11kV line cross, **Canal cross**
	T065			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		237.1																			
	T066			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		192																			Agriculture area rough road cross
	T067			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		261.9																			Agriculture area rough road cross, 11kV line cross
	T068			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		252.9																			
	T069			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		265.7																			11kV line cross
	T070			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		255.4																			
	T071			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		209.3																			Agriculture area rough road cross
	T072		1938.3	D/C Tower	B	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		231																			
	T073			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		242.6																			Agriculture area rough road cross, **Canal cross**, LT line cross
	T074			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		219.8																			Agriculture area rough road cross, LT line cross
	T075			D/C Tower	A	Dog	S	3	3	0	3	0	0	0	3	6	0	0	0	0	
		250.8																			11kV line cross
	T076		944.2	D/C Tower	C	Dog	T	6	0	6	0	0	6	0	0	6	0	0	0	0	
		191																			
	T077			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		167																			**Samdhiyala-Bhadli Road Cross**, Agriculture area rough road cross, 11kV line cross
	T078			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		204.2																			LT line cross
	T079		562.2	D/C Tower	D	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		270.4																			Agriculture area rough road cross, **Canal cross**
	T080			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	
		252.4																			**Canal cross, River cross,** 11kV line cross
	T081			D/C Tower	A	Dog	S	6	6	0	0	3	0	0	3	6	0	0	0	0	

Sr. No.	Location No.	Tower span (in meter)	Section Length (in meter)	Type of structure	Type of H Frame / Tower	Type of Conductor	Type of String/Hardware(S/S,D/S,S/T,D/T)	SRI PER TOWER	Suspension SRI	Tension SRI	S.S. H\W	D.S. H\W	S.T. H\W	D.T. H\W	PA ROD	Damper	Mid Span joint	Repair sleeve	T Clamp HTLS to Zebra	Press type palm Connector for HTLS W/O Hole	Crossing Details
		240.1																			**Samdhiyala Kharakdi road cross**, 11kV line cross, LT line cross
	T082		762.9	D/C Tower	B	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		245.7																			
	T083		245.7	D/C Tower	D	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		296.5																			**Canal cross**, 11kV line cross
	T084		296.5	D/C Tower	D	Dog	T	12	0	12	0	0	0	6	0	6	0	0	0	0	
		236																			**Kharakdi SS road cross**, 11kV line cross
	T085		236	D/C Tower	D	Dog	T	9	0	9	0	0	3	3	0	6	0	0	0	0	
		18.5																			
Gantry at 66kV Kharakdi SS			18.5			Dog	T	3	0	3	0	0	3	0	0	3	3	3	3	6	
		17032.8	**17032.8**					**531**	**261**	**270**	**75**	**93**	**90**	**90**	**168**	**516**	**9**	**9**	**6**	**12**	
								Additional Quantity	**15**	**15**	**9**	**3**	**9**	**3**	**9**	**9**	0	0	0	**0**	
								Final Quantity	**276**	**285**	**84**	**96**	**99**	**93**	**177**	**525**	**9**	**9**	**6**	**12**	

Summary 17.0328 km
Add 0.5% jumper 0.085164

Line name	66kV Vartej-Kharakdi line
Line length	17.0330
Required length of HTLS conductor	51.354