

## STANDARD CONSTRUCTION INSPECTION CHECKLIST

Team/Contractor's Name:	Supervisor:	
Scheme title :	Ref No:	
Area:	Date:	
Scope:		

Item No.	Description	Standards		Score		Remarks
		Expected	Actual	Expected	Actual	
I	<b>HT</b>					
	<b>11 or 33KV LINE?</b>					
1	Pole condition in general			<b>30</b>		
	HT Pole erection condition					
	(a) Hole depth & back filling properly done	see table below		10		
	(b) Pole Alignment ok?	No leaning		5		
	(c) Line Alignment ok?	Not Zig zag		5		
	(d) Has pole been interfered with by chopping some portions, band-it tape, Anti-split plate			2		
	(e) Dressing					
	i) Pole caps	as per std		1		
	ii) Nuts complete with washers	as per std		1		
	iii) Anti-climbing device height/barbed wire	as per std		1		
	iv) Danger/hatari plate height	as per std		1		
	v) Pole number height	as per std		1		
	(f) Span length	as per design		3		
2	HT Conductor stringing			<b>25</b>		
	a) Tensioning & sagging	no waves		10		
	b) Conductor kinks, frays	none		3		
	c) Mid-span joints quality	as per std		1		
	d) T-Off Connection	neat U-loop		2		
	e) Ground clearance	as per std		2		
	f) Conductor spacing	as per std		2		
	g) Jumpering & termination	neat with PG clamps		5		
3	HT Insulator installation			<b>10</b>		
	a) Conductor binding on insulators	neat		4		
	b) Conductor termination to dead end clamps	neat		6		
4	HT Bush clearing	as per std		<b>5</b>		
5	Stays(Normal, flying, outrigger, struts)			<b>30</b>		
	a) Support angle			5		
	b) Support point in-relation to load on pole.	closest possible point to the loaded point		2		
	c) Stay hole depth	1/2 ft deeper than respective pole hole		10		
	d) Anti-climbing device/barbed wire	as per std		1		
	e) Size of stay wire and rod/pole used	as per std		5		
	f) Distance of stay hole from pole	as per std		2		
	g) Distance of stay insulator from ground level + make-off	As per std		4		
	h) Spans supported (Not more than one for Outrigger)			1		
II	<b>LV</b>					
1	LV Pole erection			<b>30</b>		
	(a) Hole depth & back filling properly done	see table below		10		
	(b) Pole Alignment ok?	No leaning		5		
	(c) Line Alignment ok?	Not Zig zag		5		
	(e) Has pole been interfered with by chopping some portions, band-it tape, Anti-split plate			3		
	(f) Dressing					
	i) pole caps	as per std		1		
	ii) Nuts c/w washers	as per std		1		
	iii) D-iron,	as per std		1		
	(e) Span length	as per design		4		
2	LV Conductor stringing			<b>25</b>		

	a) Tensioning & sagging	no waves		10	
	b) Conductor kinks, frays	none		2	
	c) Mid-span joints quality	as per std		1	
	d) Ground clearance	as per std		2	
	e) Conductor spacing	as per std		2	
	f) Jumpering & termination	neat with line taps		4	
	g) Neutral conductor double line tapped	compulsory		2	
	h) Shackle insulator c/w bolt & nut			1	
	i) Conductor properly bound on insulator & on pole			1	
3	LV Bush clearing			5	
	a) Minimum clearance distance	as per std			
4	Stays(Normal, flying, outrigger, struts)			25	
	a) Support angle			5	
	b) Support point in-relation to load on pole.	closest possible point to the loaded point		2	
	c) Stay hole depth	1/2 ft deeper than respective pole hole		10	
	d) Anti-climbing device/barbed wire	as per std		1	
	e) Size of stay wire and rod/pole used	as per std		1	
	f) Distance of stay hole from pole	as per std		2	
	g) Distance of stay insulator from ground level + make-off	As per std		3	
	h) Spans supported (Not more than one for Outrigger)			1	
5	PME Installation			10	
	a) Testing point Distance from ground level			2	
	b) PVC earth slat			2	
	c) Earth electrodes not exposed			3	
	d) Installed on every terminal pole and fourth span			3	
6	Service cable installation			5	
	a) General quality of service cable installation			1	
	b) Proper termination and joints			2	
	c) Trench depth and ducting	2ft		1	
	d) Hatari slabs , angle iron	as per std		1	
III	S/STN				
1	Dressing			45	
	(a) HT Leads				
	i) Loops	U-loop		4	
	ii) Droppers well kept/Delta connection for sph bank			6	
	(b) Channels			5	
	(c) MV fuses			1	
	(d) LV fuses			1	
	e) L V wiring			15	
	f) Ground clearance	As per standard		5	
	g) S/S. numbering & hatari plates			3	
	h) Surge diverters installed & at the correct position	As close as possible to TX (below isolation)		5	
3	Earthing			40	
	a) MV earthing	<20 ohms		10	
	b) LV earthing	<10 ohms		10	
	c) Surge Divertor earthing	<20 ohms		10	
	d) MV, LV & SD earthing	all separate		10	
4	Tx mounting			15	
	a) Transformer tie/Welding			10	
	b) Transformer condition(no parts damaged during installation)			5	

OVERALL SCORE

100

Is repeat of work necessary? Y/N

Inspection Team

Sign

#  


**Construction Checklist Reference Table for Holes**

NB. All holes shall be square 2ft by 2ft and shall be uniform from top to bottom. Any hole found to be wider at the top than at the bottom (Tapered) shall be rejected.

Pole Size (M)	Min recommended pole hole depth	Angle poles and Stay holes	Pole Size in ft
10 m	5ft (1.6m)	At least 1/2 ft deeper	32ft
11 m	6ft (1.8m)	At least 1/2 ft deeper	36ft
12 m	7ft (2.0m)	At least 1/2 ft deeper	40ft
14 m	7ft (2.0m)	At least 1/2 ft deeper	45ft
16 m	8ft (2.4m)	At least 1/2 ft deeper	50ft
17 m	8ft (2.4m)	At least 1/2 ft deeper	55ft



