

Annexure-18**CHECKLIST FOR INSPECTION OF TRANSMISSION LINES AND SUB-STATION**

TRANSMISSION LINES			
NON-SHUT DOWN	SHUT DOWN	DEFECT	MONTH DATE
		A. FOUNDATION	
A 1		Soil erosion/uneven settlement	
A 2		Any crack/damage to foundation	
A 3		Any crack/damage to retaining wall/revetment	
A 4		Missing/Damage/Earthwire/Strip	
A 5		Earth Cutting from vicinity of foundation	
		B. TOWER	
B 1		Damaged/Missing Member BWL	
	B 2	Damaged/Missing Member AWL	
B 3		Damaged/Missing nuts & bolts BWL	
	B 4	Damaged/Missing nuts & bolts AWL	
B 5		Danger plate missing	
B 6		Number plate missing	
B 7		Phase plate missing	
B 8		Protective coating disappeared	
B 9		Step bolts missing	
B 10		Foreign material on Tower viz birds nest	
		C. HARDWARE FITTINGS & INSULATORS	
	C 1	Surface pollution	
	C 2	Unusual deflection of string	
	C 3	Flash over/Burning mark	
	C 4	No. of fitting damage	
	C 5	No. of disc damage	
		D. CONDUCTOR AND EARTHWIRE	
	D 1	Strands cut and open	
	D 2	Loose jumpers of conductor	
	D 3	Hanging earthwire	
	D 4	Dislocated/Loose VD of conductor	
	D 5	Missing VD of Conductor	
	D 6	Dislocated/Loose VD of earthwire	
	D 7	Missing VD of earthwire	
	D 8	Spacers Missing	
	D 9	Spacers Dislocated/Loose	
	D 10	Jumper/Hard Spacer missing	

TRANSMISSION LINES			
NON-SHUT DOWN	SHUT DOWN	DEFECT	MONTH DATE
	D 11	Jumper/Hard spacer loose/dislocated	
	D 12	Copper bonds missing	
	D 13	Copper bonds dislocated	
		E. ELECTRICAL CLEARANCE	
E 1		Details of trees causing/may cause problems	
	E 2	Infringement in clearance of bottom conductors to ground	
	E 3	Infringement in clearance of earthwire to conductor	
E 4		Any new construction seen within the line	
E 5		Well blasting below the line	
		Patrolling done by	
		Signature	
		Counter Signature by Line Section I/C	
1) Comments with signature of Line Section In-charge Date			

SUB-STATION			
SL. NO	ACTIVITY	TEST RESULTS TO BE APPROVED BY	S/D PERIOD
1	AC PLANT		
1.1	AHU		
1.2	Compressors		
1.3	Condenser Unit		
1.4	Cooling Towers		
1.5	Electrical Motor		
1.6	LT Panels		
1.7	Water Treatment		
2	BATTERY SYSTEMS		
3	BUSBARS		
4	CAPACITANCE VOLTAGE TRANSFORMER		
5	CIRCUIT BREAKERS		
5.1	Air Blast CB		
5.2	CB Operation		
5.3	Control Cabinet		
5.4	Measurement		
5.5	SF ₆ CB		

SUB-STATION			
SL. NO	ACTIVITY	TEST RESULTS TO BE APPROVED BY	S/D PERIOD
6	CURRENT TRANSFORMER		
7	DG SET		
8	FIRE PROTECTION		
8.1	Compressor		
8.2	Deluge System		
8.3	Diesel Engine		
8.4	Electrical Panel		
8.5	Fire Alarm System		
8.6	Fire Extinguish		
8.7	General		
8.8	Hydrant System		
8.9	Jockey Pump		
8.10	Motors		
8.11	Pumps		
8.12	Strainers		
9	ISOLATORS & E/S		
9.1	Earth Switch		
9.2	Main Contacts		
9.3	Marshalling Box		
9.4	Operating mech.		
10	LIGHTNING ARRESTORS		
11	CT SW. GEARS (ACDB)		
12	PLCC SYSTEM		
13	PROTECTION SYSTEMS		
14	SHUNT REACTORS		
15	TELEPHONE EXCHANGE		
16	WAVE TRAPS		